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Devoted to the Upbuilding of the Nation Through the Development
of the South and Southwest as the Nation's Greatest Material Asset

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Communists Entrenching in the South, Seeking to Capture the Textile Mill Operatives

THE American Vigilant Intelligence Federation recently issued a statement entitled "Communists Entrenched For Long Battle In Southern Textile Districts." As a sidelight on the situation the statement is of interest.

The MANUFACTURERS RECORD does not believe this communistic influence will be successful in its effort to disrupt the cotton mill operatives of the South, except those of the lowest possible mental and physical standard. The intelligent workers are, we believe, above any permanent influence by the communistic element. But there is quite a large class of textile mill operatives that may be open to the wiles of the communists.

Those who are familiar with the situation know that there are distinct lines of demarcation between the intelligent, thoughtful mill operatives and those of a very much lower grade. In the mountain districts from which many of these operatives have come, this distinction is as clearly defined as in any various grades of society in city or country. Among these mountain people there are many thousands of men and women of a far higher degree of intelligence and greater inherent traits of character than in the lower elements of the same regions. There the line is as strongly drawn as it is in the cotton mills.

This higher grade of intelligence cannot, we believe, be permanently influenced by the communists. The lower grade may be affected for a while. The result of this will, we think, be an advance in the standard of mill operatives generally, with lack of employment on the part of the lower classes under the domination of communists, who will lose out inevitably in employment and in the opportunity for material and spiritual advancement. The communistic element, with its widespread propaganda, will appeal to the lower, illiterate, irresponsible element, and fill the country with propaganda about cotton mill conditions in the South; while the more intelligent class of mill operatives will pursue the even tenor of their way, keeping steadily employed, developing this great industry and themselves at the same time, and moving steadily upward socially, spiritually, educationally and materially.

The statement issued by the American Vigilant Intelligence Federation is as follows:

"That communists are efficient is again being demonstrated in the current strike among the textile mills of the South. In so far as is possible, the ground is carefully charted, plans evolved covering every possible emergency that could arise.

"Since 1927, that we know of, communist agitators of the Trade Union Educational League and other branches of communism have been 'planted' in textile and other industries

in North and South Carolina, Alabama, Georgia, Tennessee, West Virginia and Virginia. These are the basis of nuclei secretly formed and hand-picked with the greatest of care, awaiting the psychological moment to swing into action when any difference occurs between employers and employees. The minute such a difference arises, these 'undercover' communists begin to play upon the feelings of the employees involved and insidiously plant the seed of communism and irritate and excite the 'fester' until it blooms forth into an open sore. When this takes place, highly trained communist leaders and organizers are immediately transferred to the scene to take up the brunt of the organization work and complete the rupture.

"These organizers are accompanied by the representatives of the Workers' International Relief and the International Labor Defense, the first to take charge of an intensive strike relief drive to provide finances to carry on the strike propaganda and supply food and clothing in sufficient quantities to keep body and soul of the strikers together; to impress them with the idea that organized labor is backing them to the limit. The latter starts an intensive drive to provide finances for legal services in defending strikers who are incited to law violation and violence, and to supply bonds to free arrested strikers from jail.

"Last, but not least, the American Civil Liberties Union appears upon the scene at a critical moment, co-operating harmoniously with the I. L. D. in defeating the law and doing so under the guise of 'Free Speech, Free Press and Free Assemblage.'

"Each branch of the communist machine functions as smoothly and perfectly with the other as the parts of a well-oiled machine, and when the situation is of sufficient magnitude, the direction of the situation is taken over directly by the Communist International.

"In the Southern situation, the preliminary details have all been carried out and whether the other forces are brought into action, depends upon how serious and widespread the strike situation becomes. At the present rate of development it promises to eclipse the Passaic and New Bedford 'lessons in revolution.'

"And still some say that Communism isn't 'getting anywhere.'"

The building of cotton mills in the South has created a vast amount of employment for people who would otherwise have practically starved, physically and mentally. Every mill has been a creator of labor. It has given employment to hitherto idle hands. From the mountain regions of the South, with millions of people having but little, if any, employment by reason of being shut off from railroads and other transportation facilities, eking out a bare existence on their little mountain farms, have poured hundreds of thousands of people seeking employment in the mills.

In this respect the cotton mills have been a great missionary enterprise, giving to these people the first opportunity for employment and giving to the teacher and the preacher of

the Gospel practically the first opportunity of reaching them in community settlements. In proportion to the money invested, and to the length of time the mill business has been active, we believe it may safely be said that the cotton mill interests of the South have done more for their labor than any other branch of industry in the world.

In the early days when capital was very scarce, when it was extremely difficult to get men to establish cotton mills, when many mills were in debt before the machinery was started, much of it having been bought on credit, labor conditions were undesirable; but even then they were better than in the huts of the mountain people who had come into the mills. Gradually as wealth accumulated, more and more attention was given to the construction of mill villages and to their better equipment with electric lights and bath fixtures, one mill after another striving to see which could furnish the best accommodations, knowing that the one that had the best mill villages would secure the best class of labor.

Probably a more contented set of labor, as a whole, has never existed anywhere. Here and there were the indolent, the slovenly, the illiterate. They are of a class that always try to make trouble wherever they are and blame their own lack of success on somebody else—in this case, on the mill. But the great mass of these mill operatives are a fine class of men and women, upstanding, honest, law-abiding, strong in their individualistic temperament, and faithful in their work.

New England mill owners 30 to 40 years ago fully recognized that the mill operatives of the South were far superior to the mill operatives of New England and freely said so to the writer. Back of the communistic efforts—communistic, socialistic and so-called "uplifting" efforts of the agitators who have brought about these strikes—are influences which have been at work and which are always working to hold down the progress of the South. Such agitators are a curse to every section afflicted with their presence, but we are quite sure that the mill operatives of the South as a whole are too sensible long to be influenced by them.

A MONUMENTAL BLUNDER

THE plea of the International Paper Company, as made before the Federal Trade Commission, that in connection with the International Paper & Power Company it had become heavily financially interested in a large number of daily papers in different parts of the country, on the ground that this was done in order to secure the orders from these newspapers for its paper, is a very flimsy excuse. If that company cannot compete in the open market for customers, both as to product and price of paper, then it has made a very great mistake in trying to tie up these newspapers by reason of its large financial interest in their securities. Such action merely weakens the position of the International Paper Company and strengthens the hands of competing paper companies and gives them the whiphandle in dealing with the newspaper publishers of the country.

Viewed from any standpoint whatsoever, this identification of a great paper and power company with a large ownership in many daily papers, North, West and South, is a monumental blunder.

NAME OF LETTER WRITER WANTED

IF the anonymous letter writer from Shelby, N. C., who wrote this paper vigorously denouncing a purported interview in the Charlotte Observer—which credited the editor of the MANUFACTURERS RECORD as being in Charlotte, even to the extent of publishing his picture—will send us his name we will be very glad to enlighten him on the subject.

AMERICAN PRINCIPLES OF FAIRNESS DEMAND A HALT IN EFFORTS OF ARMY ENGINEERS TO AVOID COMPETENT REVIEW OF JADWIN PLAN

MORE than a year after its presentation, many phases of the Jadwin plan of flood control appear entirely unsupported by the intelligent opinion of the great engineering profession of the Nation. The technical soundness, effectiveness and economic advisability of many features of the plan are yet undetermined. The safety of the lives and property of the million and a half residents of the flood-subject valley and the expenditure of hundreds of millions of the national wealth are thus staked on the opinion of a man not only inexperienced in such matters, but who has apparently used every possible means at his command to prevent a competent, impartial review of its most controversial features.

With a great engineer as President of the United States, executive intervention appears essential. Under existing law the President holds final jurisdiction over the flood control plan, and, as Commander in Chief of the Army, can direct and control the sequence of the construction work. He may, if necessary, defer construction of any controversial feature a sufficient time to permit a thorough review.

In its issue of February 7, the MANUFACTURERS RECORD called attention to the necessity for such executive intervention, and to the tactics adopted by the Chief of Engineers of the United States Army in attempting to block proposals for a competent and impartial review of the Jadwin plan for flood control.

Because of the destruction of public confidence in the plan adopted as well as in the agency which had prevented its review, and the peculiar fitness of the American Engineering Council to impress upon the President of the United States the imperative necessity of such review, we urged that organization to take immediate steps to carry this vital message to the President. Engineers of national and international repute who, because of their classification as civilians, had no opportunity to participate in the formulation of the plan, who were yet aware of the incompleteness of basic data upon which some of its most highly controversial features were founded, added their voices to the general appeal for an impartial analysis of this, the most gigantic engineering enterprise the Nation has ever undertaken.

It is gratifying to know that the American Engineering Council has decided that this matter comes clearly within the range of purposes for which it was founded.

Confronted with the possibility of executive intervention prior to the convening of the next regular session of Congress, the Jadwin flood control agency has resorted to the strategy of rushing into immediate construction the two most controversial features of the entire flood control plan, by advertising the letting of construction contracts in the proposed Missouri floodway for May 22, and serving notice that construction contracts in the Bouef floodway will be let on or about June 1.

Such action, if permitted to be carried into effect, would greatly complicate the situation and effectively slam the door to review in the face of the threatened people in the valley, the engineering profession of the Nation, and in fact, in the face of the President himself.

The ostensible plea in justification of this unseemly haste as related to the controversial matter of the Missouri floodway is that of imminent danger to Cairo, Ill. But this plea is neither convincing nor tenable, for five months ago it was stated that no work was contemplated on this phase of the job for two or three years, and no explanation has been made for this sudden change in policy. In fact, none seems pos-

sible except a desire to prevent review by starting construction work on the controversial features.

It accordingly becomes absolutely essential that the letting of contracts for actual construction in the Missouri and Bouef floodways be delayed a sufficient time to afford President Hoover an opportunity to receive the recommendations of the American Engineering Council, and to satisfy himself as to the efficacy, soundness and economic advisability of the remedies proposed.

It would therefore appear to be the plain duty of the Representatives and Senators in the Congress of the United States from the states most vitally affected, to invite the attention of the President to this emergency, with the suggestion that there be granted a sufficient delay in the letting of these specific contracts to afford him an opportunity to thoroughly acquaint himself with their engineering and economic necessity and advisability. To repeat our suggestion previously made:

"A sound plan has nothing to fear from such a review as we propose. The suspicion and the bitter opposition that confront the Jadwin plan can never be overcome without it."

THE 1929 BLUE BOOK OF SOUTHERN PROGRESS

THE 1929 edition of the Blue Book of Southern Progress, published by the MANUFACTURERS RECORD, is now ready for distribution. In this volume of 324 pages are presented facts and figures dealing with the economic advancement of the Southern States found nowhere else in such compact form for the ready reference of business executives, the educator, the student and for anyone seeking information as to the South and its resources and development. The amazing material growth of the South as a whole, and each of the 16 states comprising the South is depicted in the summary tables comparing the year 1928 with 1910 and 1900.

The South has about one-third of the area and population of the United States. In less than 30 years the South's population has increased nearly 50 per cent. Its wealth has grown from \$17,919,000,000 to \$80,000,000,000, or a gain of 346 per cent. The value of its industrial output increased from \$1,693,000,000 in 1900 to \$12,200,000,000 in 1927, the latest census figures available, or an increase of 620 per cent. Today the wealth of the South is about equal to that of the entire United States in 1900; while the value of its manufactures amounting to \$10,371,000,000 in 1927 is about equal to that of the entire output of all the factories of the United States in 1900.

Similar comparisons of major factors in national upbuilding may be obtained from the statistics presented in the 1929 Blue Book of Southern Progress. These statistics cover almost every phase of the South's industrial and agricultural activity. There are also special articles emphasizing the economic position of the South today compared with previous years and with the United States as a whole. Among the subjects discussed are Southern Agriculture; Dairying; Poultry; Manufacturing; Cotton and Rayon; Lumber and Woodworking; Paper Making; Sugar Industry; Mining; Power Developments; Transportation; Foreign Trade; Banking, etc.

A special chapter on the political revolution of the South during the last Presidential campaign will be of interest, as it marks one of the greatest epochs in the political life of the South and one which is destined to have a marked effect upon its business life.

The price of the Blue Book of Southern Progress is 50 cents a copy, with lower rates on bulk orders for those desiring to make a special distribution.

THE MEDITERRANEAN FRUIT FLY IN FLORIDA

APPEARANCE of the Mediterranean fly in some of the orange groves of Florida, while a serious danger to that important industry, must not be regarded for a moment as an enemy which cannot and will not be conquered. Scientific work in these days makes possible the overcoming of what formerly would have been great disasters due to insect pests.

When the boll weevil first began its march through the South there was somewhat of a panic in cotton-growing sections for fear the weevil meant complete destruction of the cotton crop. But science met the problem and the South is now raising more cotton than the world will take at a profitable price to the growers. While the evil has not been entirely overcome, the boll weevil is no longer regarded as a cotton-crop menace which cannot be controlled or conquered.

The same situation unquestionably, in our opinion, will result from the scientific work by State and Federal experts, with a liberal appropriation already made for the fight against the Mediterranean fly. It is possible that out of this present evil will come many methods looking to the betterment of the growing and the marketing of the fruit. Last year's crop was entirely too large. It overburdened the trees, to some extent sapped their vitality, resulting in too large an amount of small and inferior fruit and thus seriously injured the market. Out of every danger to crops it is possible for science in these days "to pluck the flower of success," and the Florida fruit growers will in one way or another finally reap a benefit from this condition, though for the time being some individuals may suffer loss.

Dr. Wilmon Newell, plant commissioner of Florida, referring to this Mediterranean fly, says that it will not be necessary to destroy any fruit trees but only to deal with the fruit itself. There are a large number of State and Federal inspectors at work all over Florida, and while the condition may for a time be serious, Dr. Marlatt is quoted in the New York Times as saying:

"We all have a full appreciation of the gravity of the situation; but there is no occasion for or evidence of panic."

Florida's fruit and vegetable crops are as important to the country as they are to the State of Florida. Indeed, Florida could thrive and continue to prosper if its fruit and vegetable crops were permanently reduced, though this is not likely to come about, but the country at large would suffer tremendously from a shortage of fresh food supplies. In providing nearly 100,000 carloads of fruits and vegetables during the winter and spring seasons, Florida contributes greatly to the supply of nutritious food and to the nation's health through vegetables and citrus fruits. The nation, therefore, has just as much at stake in the matter as has Florida.

SOUTH'S TARIFF OPPORTUNITY

ALEXANDER R. SMITH of Staten Island, N. Y., editor of the publication known as "The Port of New York," in a letter enthusiastically commending the effort of the MANUFACTURERS RECORD to strengthen the tariff forces of the South and to bring about a well-rounded protective tariff for the entire country, writes:

"Your letter reached me today, and I realize anew your rather uncanny sense of striking the nail on the head, or the iron when it is hot. A more timely presentation of protective tariff arguments to our Southern brothers could not be chosen than now, when they have lost their anchorages, as it were, and should be moored safely to the national welfare. I rejoice, too, that you have been able to secure the services of so able a tariff expert as Wilbur F. Wakeman, to lead the discussion while the fight is on. The South has been won over, body and soul, to a merchant marine. I hope 'for keeps' and why should it not see the light regarding the benefits of a protective tariff to that section? More power to you!"

Railway Freight Traffic Increasing Rapidly in Face of All Competition

By RICHARD WOODS EDMONDS.

WHEN so well-known an authority on railway matters as the Railway Age works itself into a state of acute alarm over what it calls "The Declining Growth of Railway Freight Traffic," and makes the unequivocal statement that "Few people realize the extent to which the growth of railway freight business has diminished," and says "the influence operating to divert traffic from the railways may become so strong as to render it necessary for them to have advances in rates," it is time for the business men of the country to make a careful investigation. Our railways are too vital a part of our business structure for us to witness calmly a decrepit old age creeping over them.

Just what are the facts that have so aroused Mr. Samuel O. Dunn, editor of the Railway Age?

In the editorial already quoted, the Railway Age presents the following figures to show "the increase in the five years ending with June 30, 1903," and succeeding five-year periods, to 1928:

Period	Increase in ton miles
5 years ending June 30, 1908	45,000,000,000
5 years ending June 30, 1913	84,000,000,000
5 1/2 years ending Dec. 31, 1918	87,000,000,000
5 years ending Dec. 31, 1923	7,000,000,000
5 years ending Dec. 31, 1928	17,000,000,000

Truly, such a flattening-out of the curve of increase of our railway freight business, if correct, is alarming. What does it mean? "That the increased competition of other means of transportation

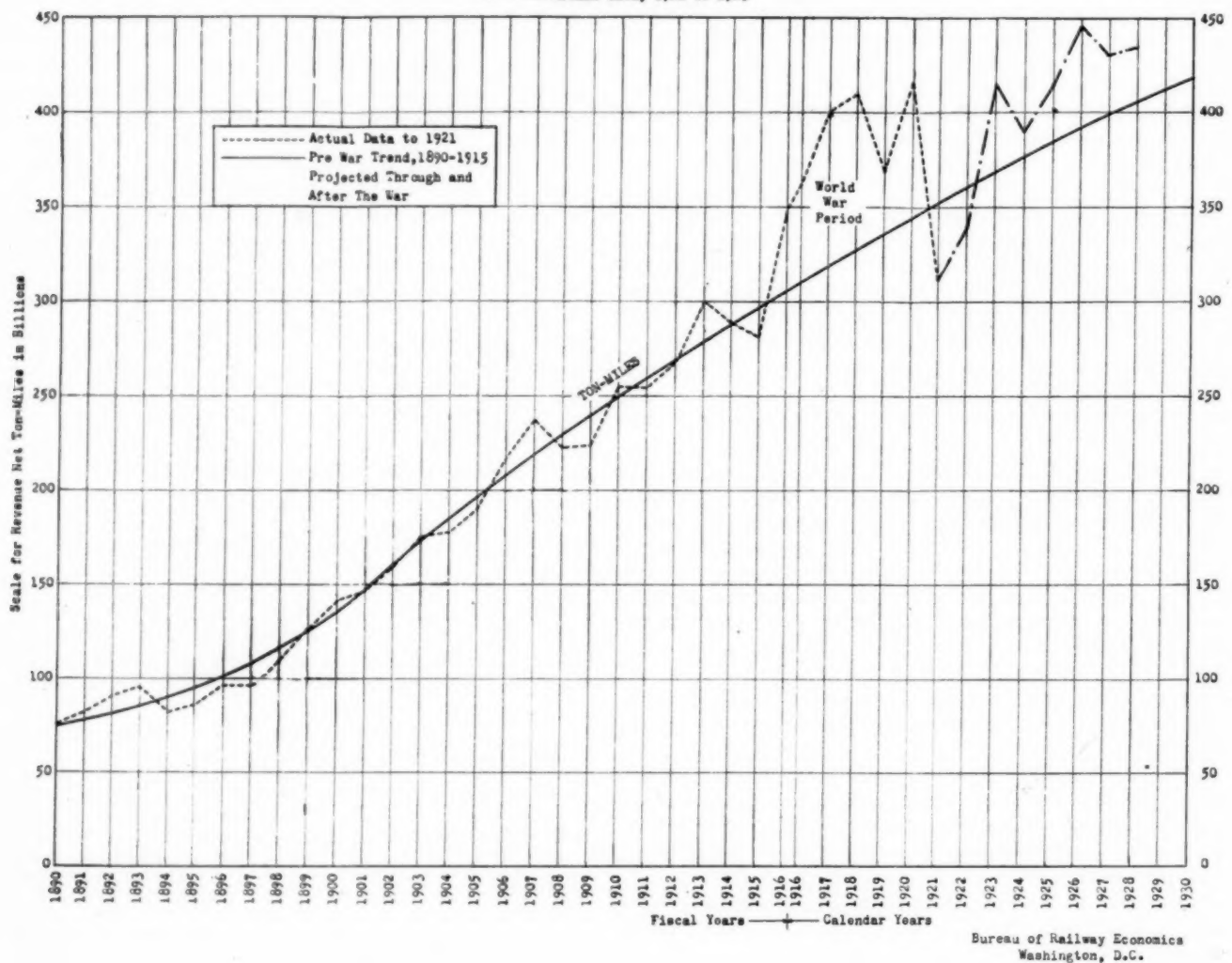
has been a factor of very great importance, there can be no question," says the editorial already quoted.

It is astonishing that the Railway Age could be so badly misinformed on so important a phase of the railway business. The fact is that the curve of freight business is not flattening out. On the contrary, it has increased more rapidly since 1915 than the trend prior to 1915 indicated it would increase. If the figures used by the Railway Age mean anything at all they merely illustrate the well-known fact that you can prove any contention by statistics if you select them carefully enough.

The accompanying chart shows the whole trend of railway freight business

Revenue Net Ton-Miles of Steam Roads in the United States, 1890-1928.

(Chart adopted from 68 I.C.C. 700, and extended to include years to 1928)
— — — Actual data, 1922 to 1928



from 1890 to 1928, and proves the fallacy of the figures used by the Railway Age. The dotted line from 1890 to 1921 shows the revenue net ton-miles, and the broken line shows the same quantity from 1921 through 1928.

The unbroken line criss-crossed by the dotted line as it rises smoothly from 75,000,000,000 ton-miles in 1890 to about 420,000,000,000 ton-miles in 1930, was drawn by M. O. Lorenz, the director of the statistical bureau of the Interstate Commerce Commission. From 1890 to 1915 it represents the average ton-miles of freight handled by the railways as shown by the dotted line to that date. From 1915 forward it represents a projection calculated from the trend prior to that year. The unbroken line from 1915 to 1930 is therefore a forecast.

The dotted line shows the great spurt of business during the war boom, the decline in the depressed year of 1921, and the recovery from that time to the close of 1928, the last seven years being added by the Bureau of Railway Economics.

This broken line shows that, contrary to the conclusion of the Railway Age, the increase of the railway freight business is not slowing down. It has picked up substantially since the abnormal war days, and based on the normal growth prior to the war, is ahead of what could have been expected.

The astounding error committed by the Railway Age is of a sort into which no trained statistician should ever fall. Its fallacy is illustrated by the fact that if the starting point had been moved either forward or backward by one year, and comparisons made with the years 1907, 1912, 1917, 1922 and 1927, or the years 1909, 1914, 1919 and 1924, two very different stories would have resulted.

Why should the Railway Age make such a blunder? Its editor is steeped in railway statistics, and presumably is thoroughly familiar with the chart used in this article. Possibly a clue may be found in the context of the editorial under consideration and other editorials from his paper, for he makes savage attacks on the current inland waterway policy. It may be that excessive zeal in the interests of the railways is responsible for this astonishing argument.

Says the Railway Age: "To state to just what extent this striking decline in the rate of growth of railway freight business has been due to the competition of other means of transportation, and to what extent to other cause, is impossible. That the increased competition of other means of transportation has been a factor of very great importance, however, there can be no question. There has been an extremely large increase in the amount of freight carried by steamships through the Panama Canal and by motor

trucks on highways. There has also been an increase in the traffic handled on some inland waterways."

While it is inaccurate to say that there has been any decline in the rate of freight traffic growth, it may be worth while to examine the influences complained of by the Railway Age, in order to arrive at some opinion as to whether, without them, the growth of railway freight would have been even larger than it has been.

Motor Trucks

In 1926 Henry R. Trumbower, then economist of the U. S. Bureau of Public Roads, estimated that in 1925 the total ton-mileage handled by motor trucks had been 16,355,527,000, of which roughly half was handled on city streets and therefore did not come into competition with railways. We may assume then that, in round figures, 8,000,000,000 ton-miles of this business was in direct competition with the railways. In considering the effect of motor trucks we can scarcely divorce them from the entire automobile industry, of which they are an integral part. The question, therefore, is what effect the entire industry has had upon railway freight business. In the same year, 1925, there were about 4,250,000 automobiles and trucks manufactured in this country, and if we assume an average weight of $1\frac{1}{2}$ tons and an average assembly haul of 250 miles for the steel and other materials going into their manufacture, plus an average distribution haul of only 750 miles for the finished cars, we get 6,375,000,000 ton-miles of freight given to the railways as a direct result of the manufacture of these motor vehicles. These figures take no account whatever of the stimulus given to other industries, such as road-building, in which materials of many sorts are shipped by rail. In this connection, the following paragraph from the report of the Southern Railway to its stockholders for the year ending December 31, 1928, signed by Fairfax Harrison, president of the company, is significant:

"But it must be noted that the loss [in passengers, due to automobiles] is not altogether net. While the automobile has taken from us a substantial part of our passenger revenue, it has at the same time made a large contribution to our freight revenue, no less than 15 per cent of which last year was derived from the transportation of automobiles and parts, oil and gasoline, road building materials and other commodities which moved by rail to supply demands created by the widespread use of the automobile."

It seems likely, therefore, that in spite of the large short haul business done by trucks, the railways are today handling a larger ton-mileage than they would handle if the internal combustion engine had never been developed.

What the trucks have done to the rail-

ways is to cut so heavily into the short haul business as to eliminate certain former freight runs and make the railways wish that other short-haul business could be taken off their hands entirely.

Waterways

When we come to waterways we find an entirely different situation. Waterways have been in use after a fashion since long before railways were dreamed of, and the old-fashioned, unreliable and inadequate service given by the old methods has been put out of business by the railways. It is the return of the waterways, using modern, mass-handling methods employed by the railways, that is to some extent cutting into railway freight business.

Since the trend of the past decade as compared with earlier decades is the subject under discussion, we would be justified in counting as freight taken from the railways only the increase in waterways freight during this period. In a very real sense, much of the traffic now being carried by the railways was taken from the waterways; but ignoring this point of view and taking that of the extreme railway champion, let us consider that all inland waterway traffic is taken from the railways and see how we come out.

Table 1, page 3 of Part 2 of the "Report of the Chief of Engineers of the U. S. Army for 1928" shows the traffic on inland waterways since 1920. Excluding that on the Great Lakes as being outside the scope of this discussion, we find that the tonnage handled on the rivers, canals and connecting channels of the country has been as follows:

	Tons	Ton-miles
1920	44,990,000	3,311,000,000
1921	52,327,000	3,851,000,000
1922	43,303,000	3,187,000,000
1923	61,530,000	4,529,000,000
1924	93,126,000	6,854,000,000
1925	114,168,000	8,403,000,000
1926	121,996,000	8,979,000,000
1927	121,812,000	8,965,000,000
Total	653,252,000	48,079,000,000

By using figures obtained from the War Department it is found that the average length of haul in 1927 was 73.6 miles. Ton-miles for earlier years are not reported, but it is believed that the average length of haul has increased somewhat since 1920. If this is true, the average haul for the years 1920 to 1927 was less than 73.6, but as no figures are available we have to use this figure for the entire 8-year period. The only reason for considering an 8-year period here is that it is the period covered by the report of the Chief of Engineers.

Since the total freight carried by waterways during this period was 653,252,000 tons, and the average haul was 73.6 miles, the total ton-miles of freight handled by this medium of transportation was over 48 billion ton-miles. Forty-eight billion ton-miles seems a large fig-

ure, but compared with the business handled by the railways in the same 8-year period, it is lost. During this period the railways handled over 3170 billion ton-miles. In other words, the entire waterway traffic, built upon a start that long antedates the earliest railway, was only 1.5 per cent of the traffic handled by the latter.

Furthermore, it is a well-known fact that the commodities moving by inland waterways are the heavier, bulkier, less valuable and therefore less profitable of the freight business. A part of the waterway business is in no sense competitive with the railways, because it is of so low a grade that but for the low water rate, it would not move at all. As a consequence, the ability of certain sections to ship raw materials by waterways enables those sections to develop as they otherwise could not do, and thus to offer more high-grade business to the railways.

Panama Canal

With the competition of trucks and waterways thus found to be insignificant as compared with the huge volume of railway freight traffic, let us turn our attention to the third factor against which the Railway Age cries out in such alarm—the Panama Canal.

How much of the traffic now flowing through the canal would otherwise go across the continent by rail, and how much would continue to go around the Horn, as in the old days before the Canal was opened? I know of no way to answer this question with any degree of assurance, but at least we can consider some of the factors entering into it. The average annual cargo through the canal during the 4-year period 1924 to 1927, was about 29,000,000 tons. The traffic for the year 1923 was split up by the Bureau of Railway Economics as follows:

Total passing through.....	Tons 25,161,544
Total originating in, or destined to, the United States.....	19,397,528
Difference, being traffic between for- eign countries	5,764,016

Of the last item, probably not a ton would have moved across this country by rail if the canal had been closed, but would have taken the old route around the Horn. Of the 19,397,528 tons that originated in this country, and went either to our opposite coast or abroad; or that originated abroad and came to us, how much was taken from the railways? One railway official estimates this figure at something like 30 per cent of the total year's traffic.

How much originated 400, 500 or 600 miles from our coast, went around by water and was shipped inland 400, 500 or 600 miles, thereby running up a fair bill with the railways in spite of the Canal? And finally, how much would never have moved at all but for the cheap water rate? The Atlantic Coast

states use lumber from the Pacific Coast, over 2,000,000 tons of lumber having passed through the Canal in 1927. If lumber from the Pacific Coast had to pay the rail freight rate across the continent, to what extent would competitive building products—stone, brick, steel, manufactured wall boards—have cut into the use of lumber in the East? And again, if the Pacific Coast states had been unable to use this method of getting their lumber to market, would the railroads serving them have found as much business of other classes?

To ask these questions shows the utter impossibility of answering them satisfactorily, at least with any data now available. However, since I have thus indicated the unreliability of estimates of the freight business lost to the railways by the canal at least I may be permitted to speculate a little. Suppose that of an average of something like 29,000,000 tons passing through the canal, 8,700,000 represents a clear loss to the railways. Having made this reckless supposition, I am faced with another; what length of average haul? Suppose the bulk of the 8,700,000 tons originates within 500 miles of one coast, and is consumed within 500 miles of the other. Moving by way of the canal, it paid railway rates to and from the seaports of transshipment. In order to arrive at an estimate of the greater distance it would have traveled had it moved entirely by rail, some allowance must be made for this fact. An average of 1500 miles seems a plausible guess. Multiplying the 4-year average that we have assumed was taken from the railways by the Canal, by the length of the cross-country haul lost to the railways, or 1500 miles, gives 13,050,000,000 ton-miles that the Canal may conceivably have taken from the railways every year from 1924 to 1927. The total for the 4-year period was 52,200,000,000 ton-miles. During the same period the railways carried 1,683,700,000,000 ton-miles. According to these estimates, the Canal took about 3.1 per cent of the railways total ton-miles.

To sum up so far, then: It is doubtful if the automobile industry as a whole has injured the railway freight business in the least. More likely it has increased it. There is some room for argument that inland waterways and the Panama Canal combined have taken about 4.8 per cent of the railway freight business.

"The rate at which railway freight traffic grows is the complex result of a number of forces," said M. O. Lorenz. "The rate at which population grows has been declining but the diversification of human wants tends to increase freight traffic faster than the population increases; the exhaustion of forests diminishes long haul lumber traffic and substitutes short haul sand, brick and cement; the increased use of fruits and

vegetables out of the home season has created new ton-mileage; the migration of cotton mills from New England to North Carolina tends to reduce the ton-miles of raw cotton but the products still require distribution; the opening of the Panama Canal changed certain long haul trans-continental traffic into short haul traffic to and from the ports; pipe lines take away oil traffic; motor trucks take chiefly the short haul freight traffic; but the rise of the automobile industry has added to the freight traffic at the same time that it is robbing the passenger departments of the railways; and the future electrification of industry threatens to diminish the coal traffic of the railways. These are some of the forces at work, but it is surprising how little change the composition of traffic of steam railways undergoes over a long period of years."

Below are percentages given by Mr. Lorenz for 1900 and 1927:

Group	Per cent each group is of total tonnage originated	
	1927	1900
Products of agriculture....	8.84	10.35
Animals and products....	2.03	2.87
Products of mines.....	55.67	52.59
Products of forests.....	7.75	11.61
Manufactures:		
Miscellaneous and L.e.L....	25.71	22.58
	100.00	100.00

Another of these forces that cannot be gauged has been the tendency in recent years to decentralize industry. Much more carefully than in former decades, industrial plants have been located with a view to proximity to both raw materials and markets. The object of this tendency has been to increase production without a proportionate increase in assembly and distribution charges. If this tendency has not enabled production to increase more rapidly than the resulting freight business of all sorts, it has failed in its objective. A strong case could be made out to show that it has been more effective than inland waterways and the Panama Canal combined in holding down the rate of increase of railway freight traffic. For example, according to the U. S. Census of Manufactures (page 13 of the Volume for 1925, the latest available), the physical output of our manufactures increased 62.2 per cent from 1914 to 1925. But in the same time the railway ton-miles increased by only 44.5 per cent. Since inland waterways and the Panama Canal did not account for so large a difference between the railway freight business and production, it may well be argued that decentralization had a large hand in it. And it should be noted that the two years compared are both normal years, as is evident from the chart, and the comparison is not open to the criticisms of comparisons made by the Railway Age.

The most powerful factor that could

be devised for diverting freight traffic from the railways would be that proposed by the Railway Age as likely to become a necessity; namely, "advances in rates." Railroad men are alert to this fact, and doubtless read that proposal with astonishment. Never in the history of commerce, so far as I know, have industries raised their rates in order to win business away from competitors.

As a matter of fact, the net operating incomes of the railways for the seven months, August, 1928, to February, 1929, as compared with corresponding months one year earlier, showed the following gains:

Month	Per cent increase over same month one year ago
August, 1928	8.1
September	1.1
October	24.1
November	31.1
December	73.9
January 1929	36.6
February	21.4

The Railway Age editorials are really an attack upon our policy in regard to the development of inland waterways at the expense of the taxpayers, and the cries of alarm over the sad plight of the railways are doubtless intended to arouse sympathy for the overtaxed railways. If the present policy of taxing railways to maintain competitive waterways is unfair, it should be revised; and if waterways constitute a menace to our chief means of transportation, they are not worth developing. But I suggest that if all the railway men who oppose waterways will adopt the sane, broad-minded attitude of R. N. Van Doren, Chairman of the Legal Committee of the newly organized motor transport division of the American Railway Association, they will more readily win the confidence and the sympathy of the public. Said Mr. Van Doren:

"The railroads have and can properly claim to have no vested right in transportation. Whenever any form of common carrier operation can transport the traffic of the country more economically or more expeditiously than can the railroads, the latter must either successfully meet such new conditions or go out of that branch of business."

\$500,000 Brick and Clay Plant

The Choctaw Clay Corp., New Orleans, has organized to construct a plant at Needham, Ala., for preparing oxidized clay and fuller's earth for market and for making insulated brick. Officers of the company include: R. J. Wilkinson, president; J. G. Miller, vice-president; L. M. Dalgarn, secretary and treasurer. Plans and specifications for plant buildings and machinery are being prepared by Mr. Dalgarn, who will also handle construction. Shipment of oxidized clay and fuller's earth is expected to begin within 60 days.

Business Men Discuss Problems

PRACTICAL and individual use, by business men in every line, of information obtained in the numerous conferences at the annual meeting of the Chamber of Commerce of the United States, held at Washington last week, was urged by President William Butterworth, who in an address said: "As a body, you have gathered the best thoughts of all; now, as individuals, you can apply whatever of benefit you have gained to your own problems." The meeting was one of the largest, and was regarded as one of the most productive, in the history of the organization.

Especial interest was accorded to an address, "Making a Tariff," by Representative Wills C. Hawley, chairman of the Committee on Ways and Means. First citing the growth of the country from a people of \$16,000,000,000 of wealth and 31,000,000 of population in 1860 to \$300,000,000,000 of wealth and 120,000,000 of population at present, Mr. Hawley said:

"Every person in the United States has a direct and beneficial interest in the protective tariff, in that it creates and maintains conditions of growth, and increasing prosperity which is redistributed sooner or later among all the people in the form of better prices for what they have to sell, increased opportunities of production, enlarging markets, better wages and more steady employment.

"What a protective policy intends to do is to equalize the cost of production at home and abroad and that in its application this means to adjust the differences in competitive conditions at home and abroad. The protectionists hold that the American market belongs to the American people. It was created by their labor, industry, ingenuity and ability. It is a thriving, prosperous and active market. It absorbs goods, wares and commodities in an amount in excess of \$90,000,000,000 per year, distributed among various classes of production—agriculture, over \$17,000,000,000; industry, in excess of \$63,000,000,000; mining, approximately \$6,000,000,000, and other products in lesser quantities.

"Foreign producers, who in many instances can obtain raw materials at lower prices than American producers and who pay for labor less than 40 per cent on the average of what is paid in the United States, look longingly toward this market and desire to enter it upon the best possible terms. This is a laudable desire. But we regard the protection of the American market and of our producers and laborers as a domestic question to be settled in such way and on such terms of trade as we deem advisable. We alone have a right to say what shall happen in this market and the conditions on which outsiders may enter in trade.

"We have no intention of excluding foreign products from the market of the

United States, but it is the purpose to admit them under such conditions and in such quantities as not to throttle our industries, imperil our wage scales and impede our development. As a fundamental fact, domestic competition is more vital in regulating prices in this country than foreign imports."

In discussing the problems of agriculture, Earl Eljah of Clarence, Iowa, said that until there is a reasonable degree of stability in the farmer's income, no ample credit system can be worked out for him, and credit is one of the big agricultural problems. Industry borrows money on the profits it is able to earn; agriculture borrows money on the amount of capital invested, and the agricultural cycle is too long for the credit that is available to the farmer.

Drilling for Oil in Louisiana Marsh Land

New Orleans, La., April 30.—Drilling for oil in the marshes of Lower Terrebonne parish, 50-odd miles from New Orleans, has begun in real earnest. Nine salt domes were located in that section last year, and rigs have been erected on most of them. About 30 wells are to be put down. So says Ernest B. Tracy, president of the Louisiana Land and Exploration Company, who with directors and stockholders recently visited the company's holdings.

The land is so unstable that great platforms, costing thousands of dollars, must be built before the drillers are able to begin work. These platforms are being built strong enough so that the wells can be pushed down 6000 feet. The Louisiana Land and Exploration Company has already expended \$2,000,000 in the search for oil in this region, Mr. Tracy said. That is what it cost to send the seismograph crews through the trackless marshes, setting off charges of dynamite, to locate the salt domes that are an almost infallible marker of oil deposits. Recently, the company has transferred \$1,800,000 of leases to the Texas Company. The Texas company's lease totals about 1,000,000 acres. The Louisiana Land and Exploration Company is now pushing exploration work on 1,250,000 acres along the Louisiana coast.

New \$1,000,000 Hotel for Houston

Houston, Tex.—Plans for erecting a \$1,000,000 hotel on part of the site occupied by the Brazos Hotel, have been announced by Howard Hudson, manager of the Brazos. The building will be 12 stories, to contain 500 rooms, and will be featured by a dining room and banquet hall to seat 800.

Sugar—Cuba and the Philippines

By WILBUR F. WAKEMAN, Former U. S. Appraiser of Merchandise, District of New York.

Number 8.

"POOR CUBANS" and "Poor Philippines" is now the plaint of the thoughtless, the propagandists—agencies and lobbyists advocating further tariff concessions to Cuba, and continued exemption of duties on sugar from the Philippines. Nearly all of this intensive campaign is directly or indirectly inspired by the Atlantic Coast Refiners (A. C. R.) of sugar, aided by the Pacific Coast refiners of cane from the Philippines and Hawaii, and American holders of expatriated investments.

"Did you read that fine article in — magazine about the 'Poor Cubans,' and how they were going to be driven out of sugar growing, and how we would have to pay more for our sugar?" said a friend of mine a few days since. I replied, with the thought I have heretofore expressed on the subject of sugar development under protection encouragement, by citing the marvelous growth of the beet sugar industry in continental United States; the renewed productivity of land put into beet culture; and, the great importance of diversification of all agricultural products as of major importance in discussing the subject. My friend, a Protectionist, admitted that we ought first to look out for our own people, but the article to which he referred had "tinctured" low-tariff-wards, him and his whole family. This illustrates the effect of propaganda and alleged educational effort, appealing to individuals of every age because of sugar's universal consumption.

Competition in sugar suggests considering the main sources of supply and demand. Louisiana cane seems to have recovered from the "Mosaic disease" which attacked cane-sugar growing in 1926 and from the floods of 1927, consequently the total continental crop, beet and cane, ought to be over 1,200,000 tons in 1929. From Cuba (1927-1928) we received 4,011,717 tons; from Hawaii (1927-1928), 807,180 tons; from Porto Rico, 670,831 tons, and from the Philippines 622,704 tons. As Hawaii is a territory and Porto Rico under semi-territorial control, they both enjoy full domestic privileges, including free trade in all products. That leaves us Cuba and the Philippines from which to reduce foreign competition. As will be remembered, the courts have decided that the Philippines, from a tariff standpoint, is foreign territory; consequently, in my opinion, the tariff laws and the same tariff concessions should apply to both.

Every friend of the Filipinos will

violently oppose this proposition, but there is a way out. Today we are returning for Philippine account a large part, if not all, of the revenue, from duties on Philippine products to this country. However, sugar is free of duty. Let Congress apply the same rates of duty to Philippine products as to the rest of the world with a concession of 20 per cent, the same as to Cuba. The Congress should provide for the return of this revenue from Philippine imports to the Philippine government for public improvements, road-building, sanitation and educational purposes. Thus we would maintain protection to home industries and help the Filipinos beyond anything that could be expected from us under the existing relationship between the United States and them.

A joint resolution was offered in the last session of Congress to limit the free entry of importations of Philippine sugar to 500,000 tons a year, and some such limitation will doubtless be included in the final tariff bill as adopted by the U. S. Senate unless my suggestion, or some other equitable plan, shall prevail. Limitations or exceptions are not sound national policy, for by establishing precedents they always lead to more limitations or more exceptions.

Cuban production of sugar seems almost unlimited, and Philippine production, now in its infancy, has increased tenfold since 1902, our imports in that year being 90,000 tons and more than ten times that amount last year. Cuba is "King" of sugar and the Philippines is the "Heir-presumptive." Both escaped Spanish control through us. Twice we, upon invitation, had to take charge in Cuba before stable conditions were attained. We are still in the Philippines, waiting for the day when stabilized government may prevail. This should not mean, however, that the products of either or both should monopolize our home market or jeopardize American industry.

Like some other industries, sugar has people interested in its benefits pulling both ways within the industry. The Atlantic Coast Refiners (A. C. R.) paid little attention to beet sugar during the life of the McKinley or Wilson Acts, 1890-1897, but soon thereafter they awoke to the great development and competition. Presently I began to hear whisperings of the purchase of 50 per cent of the stock of beet sugar factories at their book values. Nearly all of the Michigan factories became "associated"

with the A. C. R. Then they reached out further west and finally became interested in part of the factories in the intermountain and Pacific Coast states. Recently much of the A. C. R. holdings have been disposed of to actual sugar people. Thus, the beet sugar industry for many years has had within itself the adverse influence of importing refiners of the Atlantic and Pacific who wanted, at all times, to control the entire American market. Had it not been for this adverse internal drawback, the beet sugar industry undoubtedly would have advanced beyond any and all expectations.

The same result, by different methods, applied to the cane sugar industry of Louisiana. Many years ago when the cane growers were in good financial shape they became dissatisfied with the prices paid for the raw sugar by the A. C. R. After years of negotiations and pleading with the sugar buyers for fair dealing they decided to build and equip a large refinery. They did so and were met at every turn by business methods which simply said, "You get out of refining and distribution of sugar or we will put you out of business." The big importing refiners kept their word, and the sugar growers, interested in the then new refinery, became a lot of financial wrecks. Litigation followed in many cases but the power of the A. C. R. seemed to prevail generally. I hold the stenographic report of one of their cases, 700 pages, the evidence of which seems almost unbelievable and the conditions revealed unbearable in free America. I cite these internal business conditions to show the mixed influences which naturally affect national legislation. Foreign opposition to a Protective Tariff is natural because it obstructs the free flow of foreign products into the American market, but when we find American business trying to break down American production which had been established through protective tariff laws it is a deplorable situation.

Existing Cuban Reciprocity, so called, is the result of concurrent legislation by Cuba and the United States making mutual tariff concessions, and not a treaty as originally intended. That is, a reciprocity treaty was negotiated by the Roosevelt Administration in 1902, and provided for a 20 per cent reduction in duties by the United States and by Cuba. This arrangement was to be immediately approved by the United States Senate. At that time Congress had

evidently forgotten that revenue legislation must originate in the House of Representatives. I was one of those who opposed the treaty, not because of its origin in the State Department but because it set a bad precedent as affecting our fiscal system, and might prove an entering wedge against our Protective Tariff and its maintenance. A learned retired lawyer from Los Angeles whose acquaintance I had made in my work on the matter of tariff making, and who had a reputation for knowing the history and precedents of American treaty making and limitations, sent to me his opinion. It was one of the briefest of briefs I had ever read, considering the importance of the subject. In substance it proved that revenue legislation must originate in the House of Representatives, any treaty to the contrary, notwithstanding. I presented the brief to President Roosevelt who was annoyed and vexed, for his heart was in the Cuban treaty. Soon, however, he called his intimate advisers together, of whom that "progressive" Protectionist, Hon. H. A. Cooper, M. C. of Wisconsin, was one. After careful consideration it was decided that my Los Angeles adviser was in the right and that Cuban relations when affecting revenue must originate in the House of Representatives. So, at the beginning of the Fifty-eighth Congress, a bill was adopted carrying into effect the 20 per cent reduction in duties on Cuban products. This Act, however, included the following:

"Nothing contained in this section shall be held or construed as an admission on the part of the House of Representatives that customs duties can be changed otherwise than by an Act of Congress, originating in said House."

At that time the Administration trend was to include almost anything in reciprocal trade treaties, and the House of Representatives seemed to have forgotten its own authority under the Constitution. It was awakened by the framing of the Cuban treaty. I have often thought that the House of Representatives might have voted me some kind of a gold medal for having developed the unconstitutional treaty usages that were attempted. If the original Cuban treaty had prevailed tariff legislation would today rest very largely in the State Department at Washington.

With the Philippines the situation is simple. The Congress has unlimited authority, but in fairness, if we concede the Islands the same conditions as to Cuba and thereafter refund all duties collected for Philippine development, it ought to satisfy all who have American interests at heart.

Revision of the tariff on sugar calls to combat great conflicting interests classified as foreign and domestic. In the foreign contingent are the Cuban and Philippine sugar growers; the

Cuban and Philippine grinders of cane (centrals); expatriated American and foreign capital invested; the American refiners of cane sugar; and, the agencies employed to promote such a low tariff rate as will enable foreign sugar to monopolize the American market. On the domestic side are the cane growers of Louisiana, Florida and Texas; the grinders of cane (sugar houses) and

beet sugar factories; the farmers with a new crop from 700,000 acres of land in 20 different states; American capital employed at home; and the natural Protectionists of the entire country. The result, after a hard fight in the U. S. Senate, will I trust be such adequate protective tariff rates of duty as will give the country a full and successful development of the sugar industry.

Expansion of Truck-Crop Acreages Unwise Is View of Department of Agriculture

UNWISE expansion of truck-crop acreages, aggravated by "wildcat" plantings of promotion agencies, is responsible for the most serious overproduction problems of the fruit and vegetable industry, according to A. W. McKay of the United States Department of Agriculture. Mr. McKay, who is a co-operative marketing specialist of the Bureau of Agricultural Economics, urges the organization of strong co-operative associations by growers, and inter-regional co-operation among these groups, to prevent such "unwise expansion and to discourage promotional schemes which in many sections have resulted in large plantings of fruit and vegetable crops and long periods of low prices."

Citing the acreage increases in lettuce and strawberries, Mr. McKay said that when "the lettuce acreage in the Imperial Valley of California was expanded from 20,000 acres in 1924 to 34,400 acres in 1927, production was increased 41 per cent." In 1927 growers received \$4,796,000, whereas for the smaller 1924 crop they had received \$6,327,000. Increased plantings of over 57,000 acres in 1928 in the United States as compared with 1925 increased the total farm value of strawberries only approximately \$4,000,000; although acreage was increased approximately 40 per cent, the farm value of the total crop increased only slightly more than 9 per cent.

When acreages are unduly expanded, oftentimes prices are reduced to such a degree that a portion of the crop is never harvested. It is financial suicide to continue planting more and more acres to grapes, lettuce, peaches, potatoes or any other crop, if it is apparent that the limit of consumptive demand has already been exceeded. Further Mr. McKay said:

"A greater degree of co-operation than is in evidence at the present time—co-operation which is inter-regional, which will discourage 'wildcat' plantings on submarginal land and by submarginal producers, and bring to the individual growers a clearer conception of their place in the general production pro-

gram—is required to prevent unmarketable supplies. There is need, first, for the development of large, efficient co-operatives within producing regions. The functions of such associations should extend beyond marketing. They should operate as farmers' business organizations and assume direction of the quality and, as far as possible, of the quantity of products produced by their members. This does not imply control of production by co-operatives, but that they should take a positive rather than a passive attitude toward the problem of overproduction.

"As a second step, co-operatives in the various producing regions should agree upon a joint program with reference to production and marketing questions. With few exceptions, the success with which the crop of one region is marketed is affected by the success or failure of other regions producing the same crop."

The need for inter-regional co-operation especially with regard to potatoes is emphasized. Potatoes are marketed co-operatively by some 400 growers' associations. There are a half-dozen large potato marketing organizations but these are hundreds of miles apart and each is doing its own job with little reference to the others. It is believed that an effective program for marketing the total crop involves co-operation among the associations in all important regions.

Two movements have been initiated recently to put a program of this kind on potatoes into effect, although neither movement has been developed by growers' organizations. One, the National Potato Institute, has been set up on a national scale and includes growers, dealers, co-operative associations and representatives of State colleges and departments of agriculture in its membership. The other is a committee of growers, dealers, extension officials, and representatives of departments of agriculture in Maryland, Virginia and North Carolina, known as the Interstate Early Potato Committee. The efforts of this committee, of which representatives of the United States Department of Agriculture are members, will be directed toward better adjustment of production to demand in the three states, and co-ordinated distribution of the crop.

Urges Higher Duty on Bauxite

American Resources of Aluminum Ore
Ample for World Supply for Many Years

P. A. Dulin, president of the Dixie Bauxite Company, Sweet Home, Ark., in a recent letter to the MANUFACTURERS RECORD in behalf of the American bauxite mining industry said:

"Knowing that you are 100 per cent for the United States of America, and especially interested in the development of the South and Southwest we do most earnestly solicit your help to defeat the proposed bill to be acted upon by the special session of Congress to remove the tariff from bauxite imported into the United States.

"We believe that the deposits of bauxite ore in Arkansas to be one of our nation's greatest natural resources. Its development in the past 25 years is astounding. This ore is now found in five states in the United States as against 25 countries in South America, Europe, Africa, Asia and Australia. By using this material found within our own borders we benefit our own producing classes and add to our own wealth.

"Our company began business in a very small way in 1925, shipped over 300 carloads in 1926, more than 400 cars in 1927 and over 600 cars in 1928. The American Bauxite Company shipped more than ten times that amount. We shipped over 26,000 tons during 1928 while the American Bauxite Company, the Republic Mining & Manufacturing Company and other associate companies, all belonging to the Aluminum Company of America, shipped around 225,000 tons. This is a big business and yet only in its infancy, provided we can retain the tariff on bauxite imported into this country.

"Notwithstanding the fact that the American Bauxite Company and Republic Mining & Manufacturing Company, owned by the Aluminum Ore Company, own or control the mineral rights of more than 20,000 acres of bauxite-bearing lands in Arkansas—all within 30 miles of Little Rock, in the counties of Saline, Pulaski, and Grant—five other small companies hold quite a large acreage. We have under lease over 2,000,000 tons of high grade bauxite and at present we are sinking our second shaft for deep mining, bringing the ore to the surface from a depth of 150 feet up a vertical shaft. We are pioneers in this deep mining for bauxite and the only bauxite company in the world today using this system.

"We understand that the petition for removal of the one dollar per ton tariff on bauxite imported into the United States is presented by the Kalbfleisch Corporation of Chattanooga, Tenn. (who have about worked out their holdings in Tennessee and Georgia), on the grounds that bauxite in the United States is about exhausted and that the small bal-

In 1889, the price of aluminum, which is manufactured from bauxite, was \$8 a pound and production was about 9,000 pounds a year; today, the price average is 22 cents a pound, and the production is 400,000,000 pounds a year. Not that bauxite is restricted to the manufacture of aluminum, as it also is used in the manufacture of abrasives, the manufacture of chemicals and in miscellaneous products such as refractories, oil treating, and so on.

World production of bauxite in 1928 was about 1,680,000 tons, France leading in the output and the United States running second, followed by Hungary, Dutch Guiana, British Guiana and several other countries. United States production in 1927 ran to 320,940 tons, valued at \$1,988,780, and of this amount 303,830 tons were produced in Arkansas and 17,110 tons in the Georgia-Alabama field. The mineral is found also in Mississippi and Tennessee.

ance left should be held for emergency for this country in case of war. We wish to say we can prove that notwithstanding the bauxite-bearing land now owned or under lease, there are millions of tons of bauxite in Arkansas not yet under lease and the available bauxite in Arkansas has hardly been touched. There is enough to last the whole world for years, besides the deposits in the other four Southern states. There is an extra large deposit reported to have been recently discovered in northern Mississippi.

"There is a half-million dollar chemical plant under construction at Bastrop, La., for the manufacture of sulphate of alumina from bauxite, which expects to be in operation by July 1. Just now another plant of this kind is planned for Little Rock. Our own people are waking up to the possibility of this ore. Eastern and Northern capital with very expensive equipment are on the ground drilling and prospecting for it every day. We feel we can produce as cheaply as anyone and foreign bauxite has the price down now almost below the pale; in fact we cannot and do not compete with it on points on the Eastern seaboard.

"Instead of taking the one dollar off, the tariff should be raised to at least three dollars per ton to give us an even chance with foreign bauxite reaching our Eastern shores.

"The writer has before him a clipping dated March 18, 1929, to the effect that there is now being constructed at Westwego, just across the river from New Orleans, a bauxite ore tipple representing an investment of \$200,000. This

tipple is to handle bauxite from the ships of the Aluminum Line to railroad cars, to be shipped to the Aluminum Ore Company at East St. Louis.

"This bauxite business is indeed a big thing; however, very few people realize it. That is because the producer and the consumer up until this time have almost been one and the same and they have kept its development very quiet.

"I am attaching hereto some additional data that will throw light further on this subject."

The additional data to which Mr. Dulin refers contains some statements by J. W. Lewellen of the American Bauxite Company who recalls that bauxite in Arkansas was discovered in 1891, at a point which now is the heart of the town of Bauxite, in Saline county; and to the late John C. Branner, father of State Geologist George C. Branner, is given credit for the find. The mineral had been discovered near Rome, Ga., four years earlier, but the process for the manufacture of aluminum was not developed by Charles M. Hall until two years after the Georgia discovery and the same period before the Arkansas discovery.

In those days, says C. C. Brazil, the oldest attache of the American Bauxite Company at Bauxite, there were no rotary kilns fired by natural gas for drying the ore; the ore was piled up and log fires were built on either side and kept going day and night for 72 hours. Moreover, there was no railroad service and the ore was hauled three miles by wagon. Incidentally, for all this work, Mr. Brazil was paid \$1.25 a ton—and says today that he was glad to get that amount at that time. The first shipment of ore was sent to Memphis, where it was transferred to barges for delivery at Pittsburgh; but the first barge sank on the way up the river and when the second arrived in Pittsburgh the ore was found to be frozen so hard that it was necessary to blast it out with dynamite. Such were some of the early discouragements, but the industry then developed rapidly.

By 1904, says Mr. Lewellen, a small plant had been built at Bauxite by the Pittsburgh Reduction Company and another by the General Bauxite Company, and a year later the latter concern sold its holdings to the former. The plant was rebuilt in 1907, and from 1908 the yearly output gradually increased till the outbreak of the World War, when it was given great impetus. Since 1923, Mr. Lewellen adds, the Arkansas mines have been materially affected by competition from foreign ores. The pres-

ent tariff rate on crude bauxite is \$1 a ton, and on aluminum, hydroxide or refined bauxite, half a cent a pound. Following the granting of patents to Hall, in 1889, a company was formed in Pittsburgh which since has been known as the Aluminum Company of America, and the United States now produces about 40 per cent of the aluminum supply of the world.

"We are all familiar with the use of aluminum in the manufacture of cooking utensils, and many persons think of aluminum and aluminum cooking utensils as synonymous," says Mr. Lewellen. "The truth is that aluminum used in cooking utensils bears about the same relation to the aluminum industry as the amount of steel used in making nails does to the steel industry. About half the American production goes to the automobile industry for panels, frames, crank cases, pistons, roofs and complete bodies. There are large fleets of dump body trucks now in operation using all-aluminum bodies and dumping mechanisms at a saving in weight of 2160 pounds on a seven-ton truck. Railroad passenger coaches in which aluminum is the principal construction metal give years of satisfactory service, and passenger coaches consisting wholly of aluminum above the sills have been run by the Pennsylvania Railroad for over six months."

Further than this, Mr. Lewellen cites that millions of pounds of aluminum each year are consumed in the steel industry as a valuable metallurgical aid in producing sound steel, while thousands of miles of electrical transmission lines employ aluminum cable. The "remarkable development of aluminum paint in the past five years," he comments, has surpassed expectations, while aluminum now enters largely into aeronautics products. A recent article in the Literary Digest he quotes as saying that "much cloth to be worn by the women this year will be woven with threads of aluminum."

On another line, Mr. Lewellen says that in 1884 a man at Worcester, Mass., while working at a potter's wheel, conceived the idea of making grinding wheels by adding an abrasive material to his potter's clay, and his experiments actually were the beginning of the manufacture of artificial abrasives, which practically has eliminated the use of natural corundum, only small quantities of which are known in the world. The only mine producing corundum in the United States is in North Carolina. So a few years after the first experiments, F. B. Jacobs of Niagara Falls, N. Y., found that fused bauxite was superior to corundum as an abrasive, because it could be produced in uniform grains. Instead of potter's clay, other binders have been found to be more successful,

such as water glass, certain clays and bakelite.

"Some wheels using bakelite as a binder have a periphery speed of two miles a minute," says Mr. Lewellen, and adds that "sometimes, one imagines this is the kind used by dentists."

Mr. Jacobs' patents were sold to the Norton Company, which with other companies subsequently formed near Niagara Falls and one company at Anniston, Ala., now use 50,000 to 60,000 tons of bauxite each year.

"People everywhere are familiar with small whetstones, knife sharpeners, grindstones, wheels for sharpening saws, and so on," Mr. Lewellen continues, "but few, probably, know that the cylinders in every American built auto are ground, instead of bored; that all crank and cam shafts are ground and that all balls and rollers used in bearings are ground. Even in 1927, it was shown that in an automobile 32 parts were ground."

The largest grinding wheel built up to this time is six feet in diameter, with a five-foot face, and is used for grinding logs into pulp for making paper.

"Bauxite was used for making alum before it was thought of for making aluminum or grinding wheels and today occupies third place in our list of uses," Mr. Lewellen adds. "The principal uses of alum are found in the manufacture of paper, treatment of water for domestic consumption, in textile manufacturing, dressing of leather, sizing of paper and the waterproofing of garments. Arkansas can well make a bid for alum plants—indeed, there are two plants in Little Rock at present manufacturing bauxite into chemicals."

On still another line, it appears that bauxite operators now are watching keenly the development of cement plants in the United States for the manufacture of high alumina cement, a use that has taken a place of importance in Europe. So far, no American ore has been used,

Mr. Lewellen discloses, and not long ago the Missouri Pacific Magazine gave prominent mention of a movement of 7000 tons of bauxite from southern Europe through Little Rock, on its way to Hannibal, Mo. "The use of bauxite cement is bound to increase," Mr. Lewellen believes.

In discussing the economic value of bauxite to Arkansas, Mr. Lewellen said:

"The figures which we give do not include the Norton Company, Globe Bauxite Company, Southern Bauxite Company, Arkola Bauxite Company, Superior Bauxite Company or Dixie Bauxite Company, but only the American Bauxite Company at Bauxite and the Republic Mining and Manufacturing Company, located near Sweet Home, Ark. For 1928, the payrolls of the two companies in Arkansas amounted to \$536,603; total purchase of supplies, services, etc., \$419,836, of which \$320,543 was spent in the state; to stripping contractors in Arkansas, \$48,601; royalties on ore, \$167,744; state and county taxes, \$28,274; severance taxes, \$16,631; self-imposed taxes for schools, \$4248. Railroad agents in Arkansas issued waybills in 1928 on more than 7000 cars of ore, carrying freight charges of \$1,463,342, and if railroads prorate their revenues back to the state in proportion to mileage, more than \$300,000 of this amount was earned in Arkansas."

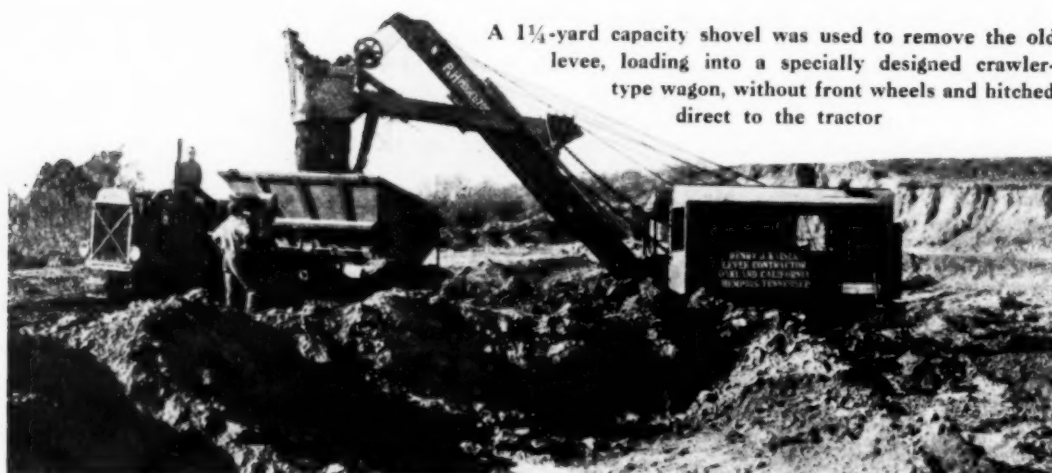
At the head of the American Bauxite Company in Arkansas have been the late General John R. Gibbons and John T. Fuller, now president of the Franklin Fluorspar Company, Paducah, Ky., while L. R. Branting at present is superintendent.

Incidentally, Mr. Lewellen issues a general and cordial invitation to all persons to visit the company's schools, from which many boys and girls go each year to colleges and universities, "and not one has ever failed." Also the company maintains a theater "where good picture shows can still be seen for 10 cents," and a hospital, a community building and a golf course and other recreational features.

Pushing Work on \$25,000,000 Western Electric Plant in Baltimore

A large force of workmen employed by the H. K. Ferguson Co., of Cleveland, Ohio, general contractors, is completing the preparation of a 153-acre site at Point Breeze, Baltimore, Md., for the construction of the \$25,000,000 cable and insulated wire plant of the Western Electric Co., Inc., with Baltimore offices in the Court Square Building. An old distillery on the site is being torn down and large quantities of lumber, concrete materials and reinforcing steel are being prepared for use in the new plant. The construction of the cable plant, which will be 500 by 660 feet, will be the first

unit in the huge development. The Ferguson company has placed an order with the Hudson Building Supply Co., Baltimore, for 25,000 barrels of cement, and with the Truscon Steel Co., Youngstown, Ohio, for 300 tons of reinforcing steel, for use in this unit. Two thousand piles for the foundation are being driven by the Raymond Concrete Pile Co., New York, and carpenters are now working on the forms. A large tower is being erected on the site for the purpose of photographing construction progress. F. A. Collins is general superintendent of the H. K. Ferguson Co. on the site.

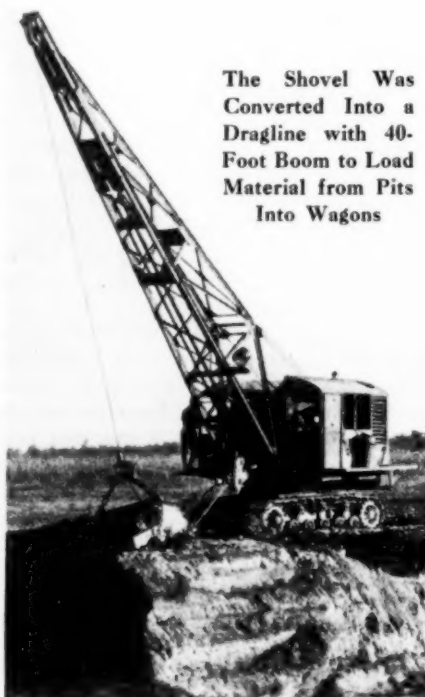


A 1¼-yard capacity shovel was used to remove the old levee, loading into a specially designed crawler-type wagon, without front wheels and hitched direct to the tractor

Evolves Special Equipment for Levee Job

California Contracting Firm Designs Gondola Leveler and Cart-Type Crawler Hauling Equipment, Built In Own Shops—Successfully Employed on Two Projects

BECAUSE of the wide and varied scope of construction operations necessary in connection with the present program of flood control on the Mississippi River, many contractors from all sections of the country who previously have been engaged in widely different types of work are now endeavoring to obtain contracts for levee projects, spillways, dikes, etc. In fact, a number of contracts have been awarded during the fiscal year beginning July 1, 1928, to contracting firms without previous experience on river projects, and these firms co-operating with manufacturers of material handling machinery have introduced some entirely new and original methods. With the sources of levee building material more difficult to obtain and farther removed, as pointed out in the recent series of articles on Mississippi Flood Control, the operations of digging, transporting, and placing the material are, on many jobs, widely separated, and the single unit plant so extensively used in the past is being supplemented with new type equipment



The Shovel Was Converted Into a Dragline with 40-Foot Boom to Load Material from Pits Into Wagons

and combinations of equipment; also new methods of earth handling are being introduced. Despite the fact that the present program has been under way less than a year, industrial railways, tractors, large capacity crawler-type hauling units, hydraulic dredges, larger draglines, etc., have been employed, in addition to the fairly well-standardized equipment such as draglines, tower machines, and teams, etc.

Based on experience gained in constructing hydraulically a mile approach to a bridge near Bradenton, Fla., Willbanks & Pierce, hydraulic dredging contractors of New Orleans, La., determined to engage in levee construction. An investigation of soil conditions in the valley resulted in their submitting a bid to construct a loop levee north of Memphis, near Rosedale, Miss., which subsequently was accepted. The firm successfully completed the job using 10-inch and 12-inch dredges for digging, transporting and placing the material, and draglines for shaping up the levee to the proper cross section. The firm



General View of Shovel Loading Old Levee Material into Crawler Wagons

has successfully demonstrated to its own satisfaction that levees may be built economically and satisfactorily by this method.

Again, the Kaiser Paving Co., a widely known firm of paving contractors of Oakland, Cal., recently completed its first levee building project near Lula, Miss. The firm has solved certain perplexing road building problems on the West Coast. As a result of its success in constructing hard-surfaced roads through swamp lands it received sub-contract for 200 miles of roads making up the 750-mile Cuban Central Highway, now under construction by Warren Bros. Co., Boston, Mass. The river project consisted in setting back an old levee on an average of approximately 500 feet. Since the new levee was of greater height and larger base than the old levee, only about 60 per cent of the material necessary for the new section was available in the old. This made it necessary to secure the remainder of the material from the area under the old section.

For removing the old levee, a P. & H. model 700 1½-yard capacity shovel, furnished by the Harnischfeger Corporation, Milwaukee, Wis., was used for loading the hauling equipment, which consisted of four crawler wagons, with a capacity of 12 cubic yards each, designed and built by the Kaiser Paving



Gondola Leveller Pulled By Tractor

This special piece of equipment was designed and built by the contractors for facilitating grading operations.

Co. at their Oakland shops. These wagons were of the crawler cart type, having no front wheels and hitching direct to the tractor. The wagons dump from the rear and the gate closes automatically after dumping the dirt. Caterpillar "60" tractors were used to pull the wagons.

When all the material from the old levee had been utilized, the shovel was converted into a dragline with a 40-foot boom, permitting the loading of material from deep pits into the wagon without a descent into the pit.

A gondola leveller was used to prepare the material on the dump and to bring

the material to proper cross sections; the leveller was designed and built by the company in its own shops. An electric generator on the tractor furnished current for operating the control motors on the leveller and an arrangement of buttons on the tractor enabled the driver to control all operations without interruption.

The Kaiser Paving Co. also completed recently a large levee job near Osceola, Ark., using the same type of hauling equipment and three P. & H. draglines.

H. P. Davis is manager of the Mississippi River Division of the Kaiser Paving Co. with offices at Memphis, Tenn.



Crawler Type Cart and Tractor Pulling It

START SHIPPING SULPHUR SOON

Duval Texas Sulphur Co. to Use New Terminal at Corpus Christi

Houston, Texas—Ashcraft-Wilkinson Co., Atlanta, Ga., will handle the distribution of the output of the Duval Texas Sulphur Co.'s mines, located at Balangana Dome in Duval County, Tex., according to an announcement made here by J. W. Cain, president of the Duval Company. As soon as the connecting rail link is completed from the mines to the main line of the Texas-Mexican Rail-

road, the company will begin shipping its products. An arrangement has been included with the Port Commissioners of Corpus Christi, whereby that port will be used as an ocean loading terminal by the company, and work has already started on a large sulphur terminal. It is estimated that the first year's production will total 150,000 tons.

The Duval Texas Sulphur Co. is a subsidiary of the United Gas Co. The Ashcraft-Wilkinson Co. is widely known as a distributor of all products connected with commercial fertilizers and the chemical trade.

24-Mile Gas Line From Baltimore to Laurel

A petition has been filed with the Public Service Commission by the Consolidated Gas, Electric Light & Power Co., Baltimore, for authority to construct a high pressure gas line to Laurel, Md. The Mayor and City Council of Laurel have granted a franchise to the company, it is said, and if permission is secured from the Public Service Commission, the Consolidated plans to begin at once an extension of 24 miles to serve the territory.

Ask Bids on Extensive Mississippi River Flood Protection Projects

New Levees Proposed in Two Engineer Districts Will Require Handling of 18,000,000 Cubic Yards of Material

PROPOSALS will be received for two levee construction projects on May 22 at the United States Engineer Office, Memphis, Tenn., requiring the handling of more than 10,500,000 cubic yards of material, and on May 15 the New Orleans River District will open bids for a project involving the handling of more than 7,650,000 cubic yards. The projects are a part of the approved program for flood control on the Mississippi River and its tributaries, adopted by Congress and approved May 15, 1928. The sum of \$325,000,000 was authorized to be appropriated.

Birds Point-New Madrid Floodway Levee

Bids will be opened May 22 at the United States Engineer Office, Memphis, for constructing about 8,368,000 cubic yards of earth work in the Upper St. Francis Levee District on what is known as the Birds Point-New Madrid floodway levee. Construction of the project, which is estimated to cost \$2,500,000, will go forward under a continuing contract authorization, for which about \$801,000 is now available. It is expected that Congress will make additional appropriations available before the present funds are exhausted, and it is proposed to allot out of such appropriations for the fiscal year beginning July 1, 1930, about \$930,000, and when appropriations are made for the next fiscal year any additional fund required to complete the work will be allotted.

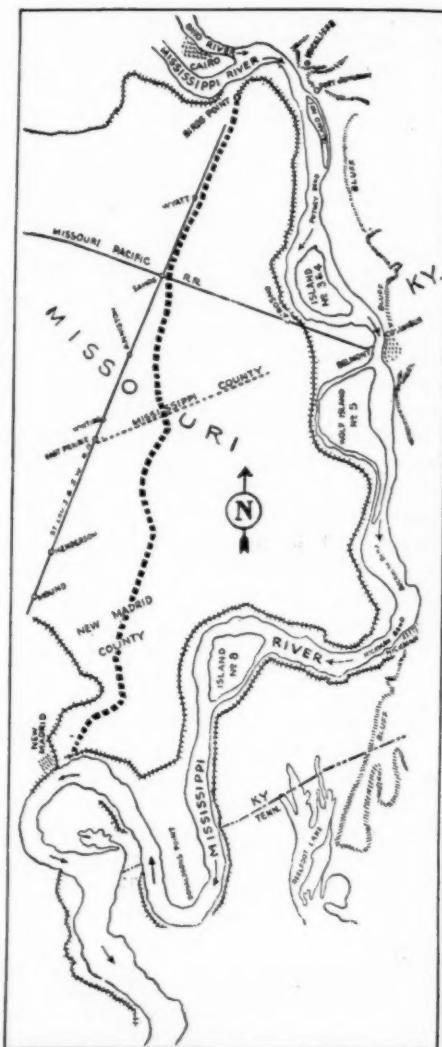
The work contemplated begins opposite Cairo, Ill., at Birds Point, Mo., and extends in a southwesterly direction for 23½ miles. Highways cross the levee line at numerous points. The present levee will be lowered 5 feet, so that when the river reaches a stage 55 feet at Cairo, the water will overflow the existing levee and enter the channel or floodway between the present and proposed levees, flooding 135,000 acres in New Madrid and Mississippi counties, Missouri, and thereby relieving the pressure at Cairo and keeping the river stage at a safe level. The government is now taking steps to acquire flowage rights in the land that is to be thus flooded. The Army engineers say that the acreage will not be flooded more than once in 10 or 12 years. Contract for furnishing abstracts of titles to this 135,000-acre tract was recently awarded to the Missouri Floodway Abstract Co., of which W. E. Edwards, New Madrid, Mo., is president.

New Madrid-Sikeston Ridge Levee

On May 22 bids will also be opened by the U. S. Engineer Office at Memphis for constructing 2,130,000 cubic yards of earth work on the New Madrid-Sikeston Ridge (St. John's Bayou) Levee in the Lower St. Francis Levee District. The first section begins about 3 miles up the levee from New Madrid, Mo., and extends upstream about 9 miles to a point about 2¾ miles beyond the end of the present levee. It comprises a river side enlargement, a setback of the existing levee and a loop levee, requiring 930,000 cubic yards of material. The second section of the work begins about 14 miles upstream from Caruthersville, Mo., and extends downstream for about 11 miles to Gayoso, Mo., and provides for river side enlargements and setback levee.

Bonnet Carre Spillway Guide Levees

On May 15 bids will be opened at United States Engineer Office, New Orleans River District, for constructing the side levees of the Bonnet Carre Spillway. Work will be in four sections and bids are invited on any one or more sections, or on the work as a whole. The government is acquiring rights of way for levees only. It is not acquiring rights of way across the railroad properties, and it will be necessary, therefore, for the contractor to make arrangements for pipe lines or other plant equipment across property not acquired. Section 1 consists of building a levee approximately 17 feet high, and 12-foot crown. The estimated quantity is 560,000 cubic yards. Section 2 calls for a levee averaging 15 feet high, with a crown of 12 feet, approximately 9038 feet long, requiring 400,000 cubic yards of material. Section 3 provides for a levee averaging 17 feet in height, and in digging and refilling two cut-off ditches. The base of the levee is to be a hydraulic fill approximately 10 feet high and 200 to 300 feet wide, confined between retaining dikes. The superimposed portion of the levee averages approximately 7.5 feet in net height. The estimated quantities are: Hydraulic base, 2,300,000 cubic yards; superimposed fill, 250,000 cubic yards; cut-off ditches, 360,000 cubic yards. Section 4 calls for the same character of construction as described in Section 3. The estimated quantities are: Hydraulic base, 3,000,000 cubic yards; superimposed fill, 310,000 cubic yards; cut-off ditches, 470,000 cubic yards.



Birds Point-New Madrid Floodway Levee

This drawing shows the proposed floodway levee, bids for which will be received May 22. The dotted line indicates where the new levee will be built.

The Bonnet Carre Spillway is located in St. Charles Parish, Louisiana, and extends from the Mississippi River to Lake Pontchartrain, at a point about 30 miles upstream from the City of New Orleans. The upper and lower levees will be approximately 7000 feet apart at the river and 12,000 feet apart at the lake. Navigation to the site by hydraulic equipment is said to be practicable.

The guide levees will be 3 feet lower than the levees along the river, which height allows a margin of 3 feet above the maximum crest that can be diverted through the spillway. Experiments are now being conducted on scale models to determine just how much of the dam at the intake will have to be removed to prevent a stage in excess of 20 feet on the Carrollton gauge.

2,830,000 Cubic Yards in Levees at Mound City and in Reelfoot and Lower St. Francis Levee Districts

The U. S. Engineer Office, Memphis, will open bids May 22 for constructing

about 2,836,000 cubic yards of earth work at Mound City, Ill., and in the Reelfoot and Lower St. Francis Levee Districts. The projects include: Riverside and landside enlargements totaling 206,000 cubic yards at Mound City along the Ohio River; new levee in the Reelfoot Levee District involving 410,000 cubic yards; two new loops in Reelfoot Levee District, 430,000 cubic yards each and a third of 435,000 cubic yards; riverside enlargement of levee about 1½ miles south of Barfield, Ark., in the Lower St. Francis Levee District, 365,000 cubic yards; enlarging levee near West Hickman, Ky., in Reelfoot Levee District, 150,000 cubic yards; new levee near West Hickman, 465,000 cubic yards.

\$550,000 ATLANTA UNION STATION PLANNED

May Build \$3,000,000 Cold Storage and Office Building

Atlanta, Ga.—The Nashville, Chattanooga & St. Louis Railway has submitted plans to the Georgia Public Service Commission for a new \$550,000 union station to be erected on the west side of the Forsyth street viaduct, extending beyond Fairlie street. A hearing on the proposed plans will be held on May 15. The depot would be of limestone and buff brick, and the interior of stone and marble or ornamental tile. Additional plans call for a 40-foot viaduct from Forsyth street to Spring street, which would afford a short passageway from the new depot to the terminal station on Spring street. McDonald & Co., Atlanta, are the engineers.

With the announcement of plans for the proposed union depot, attention is centered on plans of interests associated with the railroad to build a \$3,000,000 cold storage and office building on the site of the present union depot, for which tentative plans are said to have been discussed. This structure would be 15 stories high, it is said, and would cover all of the state's property between Pryor street and Central avenue. It would provide office space on the outside, while the core or inside of the building would afford cold storage space. Refrigerator cars could be drawn directly under the plant and loaded or unloaded by a system of elevators and loading machinery.

\$500,000 Raleigh School Bonds Offered

Raleigh, N. C.—Bids will be opened May 15 by the School Committee of Raleigh Township, at the office of W. Hargett Street, secretary, for the purchase of \$500,000 5 per cent school bonds.

Bids on \$1,000,000 Chemical Plant Soon

**Work to Begin on Big Project at Memphis, Tenn.
—To Provide Office and Manufacturing Space**

Memphis, Tenn.—Bids will be invited soon for constructing a new plant here for the Plough Chemical Co. for the production of chemicals, medicines and household products, and which is estimated to cost \$1,000,000. The building will be of reinforced concrete, faced with ornamental brick and other masonry, and will be of monumental architecture. It will be of the set-back type, five stories, with a central tower to house water tanks, elevator machinery and other mechanical equipment.

The office section, to be 220 by 60 feet, with a 23-foot ceiling, will occupy the entire front of the building on the ground floor. The rear portion of the

first floor and the basement will be devoted principally to storage and shipping. An entire floor and a portion of another will be occupied by the printing and box manufacturing plant. Air in the office and in most of the manufacturing space will be heated in winter, washed, humidified and cooled in summer. Rest rooms will be provided for the various departments and there will also be a central cafeteria, auditorium, store for employees, a fully equipped emergency hospital and recreational facilities.

Design and construction are being carried out under the supervision of Jackson & Moreland, engineers of Boston, Mass., and Harker & Cairns, architects of Memphis.

\$8,000,000 Fort Worth Depot Project Planned

Railroad and City Discussing Plans for Freight and Passenger Facilities and Elimination of Grade Crossings

Fort Worth, Tex.—At a recent conference of the Fort Worth city council and City Manager O. E. Carr with J. L. Lancaster, of Dallas, president of the Texas & Pacific Railroad Co., plans were advanced for the construction of passenger and freight terminal facilities here estimated to cost \$8,000,000. The Texas & Pacific would expend from \$5,000,000 to \$6,000,000 on the project, it is said, and is eager to start work as soon as pos-

sible. Part of the expense of building underpasses for street crossings would be borne by the city and it is understood a bond issue of from \$1,500,000 to \$2,000,000 will be submitted to a vote of the city. The railroad plans to build a modern passenger terminal on its reservation on the southeastern border of the business district, together with two huge freight structures, one for incoming and the other for outgoing freight.

Virginia Development to Be Discussed

Fifteen hundred prominent business men of Virginia have been invited to attend the first "All-Virginia Conference," at Virginia Beach, opening May 10. Besides business sessions of the 10 State Chamber committees and other groups, three general conference sessions are planned and nine formal addresses are on the program. Former Governor E. Lee Trinkle will preside in the evening and addresses on the industrialization of Virginia will be features.

ground floor in addition to the lobby. The building will cover a site 57 by 100 feet, and alongside a one-story structure will be erected, designed to support nine additional stories, to house a large bus terminal. Construction will be of reinforced concrete, steel and brick.

A Fine Hotel in a Glorious Region

"Grove Park Inn on Sunset Mountain, Asheville," is the title of a beautifully printed publication setting forth the attractions of the hotel and the surrounding country. Grove Park Inn is, indeed, one of the wonder hotels of America, and carries as its motto "Finest Resort Hotel in the World."

Information about the hotel, or the mountain country of Western Carolina, which is always a marvel of beauty in the spring, will be furnished upon inquiry to the Inn.

\$400,000 Hotel for Texarkana

Houston, Tex.—Plans are being prepared by Joseph Finger, local architect, for a 10-story hotel building to be erected in Texarkana for W. A. McCartney, at an estimated cost of \$400,000. It will contain 125 rooms, each with bath, and will have a number of floors on the

Senator Pine of Oklahoma Scores Deflation Policy of the Federal Reserve System

In the following statement recently issued by Senator W. B. Pine of Oklahoma, the Federal Reserve Board is said to have misconstrued the law; and the depressed condition of agriculture is attributed to the deflation policy of the Board. Senator Pine calls for equitable administration of the Board and the elimination of banker control. He said:

IF we would solve the farm problem we must first determine the cause. On May 18, 1920, 56 men assembled in a room in Washington and secretly changed the credit policy of the nation. Five of them were members of the Federal Reserve Board, one was a Congressman soon to become a member, one a counselor for the Board, the remaining 49 were bankers; most of them big bankers. When the 56 sat down in that room the farmers were prosperous; never more prosperous in all their lives. When the 56 rose from the table the farmers were bankrupt.

It took some of them years to find it out but if they were average farmers and relied entirely on the income from agriculture it was impossible for them to survive the years under the changed credit policy. In 12 months it took 106 per cent more farm products to get a dollar. No industry can survive such treatment by the Government. The farm industry is in worse condition for the sole reason that it was deflated more and deflated longer than any other industry.

It is an astounding fact that on this day the 56 men assumed that they had the power to control and distribute the nation's credit supply, and they also assumed that through this control of credit they controlled the nation's production of commodities. If anyone doubts this statement he should read and carefully study the minutes of that meeting. The governor of the Board said: "The fact must be recognized that, however desirable on general principles continued expansion of trade and industry may be, such developments must accommodate themselves to the actual supply of capital and credit available."

This day the nation's business was put in a straight-jacket. They took control of the credit supply and then reversed the law and said trade and business must accommodate themselves to the actual supply of credit they made available. The law requires them to supply the credit necessary to accommodate trade and business. The law makes them servants; they reversed the law and made themselves masters. From that day to this hour the credit supply of the nation has been directed and controlled. They assumed the right to discriminate between industries; some

were considered essential and some were considered nonessential. Out of that experience they learned their power and since then they have been discriminating between industries and between sections of the country in the distribution of the common credit supply.

The Governor also said the objective was to "restrict credit and increase production particularly of food crops." Please note carefully the objective or purpose of the meeting. It is the key to the farm problem. There was no farm problem at the time—here is where it began.

Practically all present were bankers and it is not at all singular that they decided that it was necessary to restrict credit, make scarce, reduce the supply, of the thing they were selling. No farmers were present and it is not surprising that they decided it was necessary to increase production, make abundant, increase the supply (create a surplus), particularly of food crops. They discussed the matter for several hours and determined a policy for the Board and for the bankers, laid their plans and made all necessary arrangements for accomplishing their purpose.

That is, to restrict credit and increase production, particularly of food crops. They immediately set it in operation and succeeded beyond their expectations. To the extent they succeeded they are responsible for the farm problem. The purchasing power of the dollar, which was made scarce, went up and the price of commodities, which were made abundant, went down. They did not reduce the farmer's investment one cent, they did not reduce his indebtedness, nor his interest charge, nor his taxes, nor the number of mouths that had to be fed.

His fixed obligations remained practically the same while his income was divided by two. The climate is the same, the productive capacity of the land has not changed, and the farmers are more efficient than ever before. In his effort to survive he has produced more per man and has rendered greater service to the nation. He is the best farmer the world has ever seen, yet he is a failure because those in control have manipulated the nation's credit supply so as to reduce the value of his property and his products.

Five official investigations of the farm problem have been made by groups composed of men competent to determine the matter. In one conclusion they all agree and that is, the surplus is the heart of the problem.

When seeking a solution it is well to keep in mind that on May 18, 1920, the Federal Reserve Board, which has more power than any other group of eight men in the world, combined with the great bankers of the nation, determined on a program that had for its objective the "restriction of credit and the increasing of production particularly of food products." This policy or program is still being enforced in the rural sections of the country.

From 1920 to the present the national bank examiners have been compelling the rural bankers to collect the loans made to the farmers and local merchants. At this time many of the small banks are not permitted to serve the communities that support them. They gather up the money—the circulating medium—the medium of exchange in that community and ship it out. Of course depression and bankruptcy follow.

* * * Under the new policy of the Federal Reserve Board as administered by the bank examiners, the money of that little town has either been drained out by investing it in commercial paper or call loans or it has been frozen by investing it in bonds. In either case it no longer circulates or stimulates business in that community.

It is now stimulating business and adding to the prosperity in some other section of the country. It is making possible new industries or new buildings in some large city, or it is contributing to the inflation of the credit supply in New York City which is causing the activity in stocks and causing the advance in stock prices.

Please remember it is the bank examiners, the agents of the Government, who are compelling the rural bankers to withdraw the credit from the local farmers and merchants and when they finally succeed in collecting the local loans, the money accumulates in the little bank, then it naturally gravitates to the money centers, which no doubt is the objective in the minds of those who are responsible for the policy.

* * * A careful study of the bank statement reveals the fact that in 1920 this bank was an asset and rendered a service to the locality in which it is located, but in 1927 it had ceased to be an asset and had become a liability. It had become a parasite and was sucking up the life blood of business and ship-

ping it out to add to the prosperity of the great cities.

From the standpoint of the community it would be better if the depositors withdrew their money from the bank and kept it themselves. Then they could and would lend it to their neighbors who needed it, and the examiners would have nothing to say about the terms of the loan.

The present policy is destructive. It is an economic crime. This little city in Oklahoma needs its capital in the same way and to the same extent as the large cities, and for the agents of the Government to deny this fundamental right is to commit a great wrong.

Since 1920 the country banks have been buying bonds and the Comptroller of the Currency has become the greatest "securities" salesman of all time. Securities will continue to advance in price as long as the Government manipulates the credit supply in such way that the country banks are compelled to buy them, and, on the other hand, there will be an acute farm problem as long as the legitimate credit supply is diverted by the Government to other channels.

During the seven years between June 30, 1913, and June 30, 1920, there were 456 bank suspensions in the United States, or at the rate of 65 per year. In the eight and a half years between June 30, 1920, and December 31, 1928, there were 5128 suspensions, or at the rate of 603 per year. The rate in the past period was nine and one-half times what it was in the first period.

It is well to keep in mind that during the latter period the credit supply was directed and controlled as it never had before been directed and controlled, and that most of this increase in bank suspensions occurred in the states where agriculture is the dominant industry. Those who were in control construed the law so that it did not meet the needs of the farmer.

Under the present rules farm commodities are not good security for loans until the instant they leave the farmer. Everybody can use Federal Reserve credit to carry or speculate in farm commodities except the farmer.

This rank discrimination is in violation of the spirit of the law and is one of the immediate causes for the increase in rate of bank failures in the rural sections.

In 1925 the Federal Reserve System set aside \$200,000,000 in gold to assist England to return to the gold standard and at the same time more banks were failing in this country than at any other period. April 10, 1926, a run was started on a bank in Cuba and the Federal Reserve System furnished between \$30,000,000 and \$50,000,000 to stop it and save that foreign bank. During that year 956 banks failed in this country

and practically nothing was done to save them.

The American credit supply which was not available to save American banks was made available to save this bank in Cuba. Had the same interest been manifested and had the same aggressive procedure in the case of the Cuban bank been used, there would have been practically no failures in America.

Controlling and distributing the credit supply which belongs to all the people (not to the bankers) is a function of the Government, and if the Government fails to exercise this power then men dominated by selfishness and greed will exercise it to advance their own interests.

Much has been said about the reasons for the unusual number of bank failures in the agricultural regions since 1920. Most of the reasons urged and accepted are untrue.

War inflation was not the cause, because there was as much inflation in Massachusetts where banks did not fail as there was in Iowa where they did fail.

High prices of land were not the cause, because the average selling price of Iowa land was never high enough. The man who sold his land in 1920 did not receive as much for it in purchasing power as the man who sold in 1913. The price was not high, it only seemed to be high because it was expressed in or measured by the Government's depreciated dollar.

It was not caused by speculation, because there was less speculation in the agricultural sections than elsewhere. Speculators prospered and continue to prosper. * * *

It will be noted that for the first 57 years of national banking there were 17 national bank failures in Iowa and exactly the same number in Massachusetts. By 57 years' history, by 57 years' actual experience, it was demonstrated that the bankers of Iowa were just as intelligent in the management of their banks as the bankers of Massachusetts; and, as far as bank failures are concerned, it shows conclusively that the bankers of Iowa in integrity were the equals of the bankers of Massachusetts.

Then, without a change in the bankers, without a material change in the productivity of the states, something awful happens; because on May 18, 1920, a great change in the rate of bank failures take place. In the next 7½ years only one national bank in Massachusetts fails and during the same period, 66 fail in Iowa.

While the rate of bank failures is being divided by three in Massachusetts, it is being multiplied by 28 in Iowa. Natural conditions remain the same in the two states. During the latter period the people of Iowa were more efficient and were more successful in producing commodities than in the first period.

This was caused entirely by the inequitable, the sectional, application of the deflation policy of the Government.

The farmers of Iowa are the most conservative people in the world. They are intelligent. They are more efficient than the bankers of the nation; and yet, they have failed, because their Government has discriminated against them and permitted others to discriminate against them in the distribution and in the manipulation of the nation's credit supply.

At this time there is great discrimination between sections of the country in the distribution of Federal Reserve credit. The rules are so drawn that the farmer is denied the use of his own credit. If the farmer is good and wants credit, then the Government, having taken control of the nation's credit supply, is obligated to see that he gets it.

To deny him the credit to which he is entitled is to deny him one of his inalienable rights, and it makes no difference whether he wants it for 10 days or 10 years. The Government is obligated to see that he gets it on the same terms that are granted to those engaged in other industries. * * *

This statement shows that Iowa was deflated more and was deflated longer than Massachusetts. In fact, deflation which ceased in 1924 in Massachusetts is still in progress in Iowa. The national bank examiners are at this time vigorously prosecuting the 1920 deflation policy in the rural sections. In 1928 Massachusetts drew 87 per cent of the credit from the system she drew in 1920, and Iowa drew only 8 per cent. They were equally inflated and equally prosperous in 1920. In 1928 Massachusetts has inflation and prosperity and Iowa has deflation and depression.

This is caused entirely by the inequitable, by the sectional administration of the Federal Reserve Law. It is so administered by the Board and by the examiners who are the contact men that the farmers cannot secure their part of the credit supply, and the law is so misconstrued, and the rules are so drawn that the farmer is eliminated from the picture. As administered before 1920 it did meet the needs of the farmer and his troubles all grow out of the change in the policy of the Government.

The above statement shows that California is now drawing from the system 240 per cent of the credit supply she drew in 1920. As a result houses can hardly be built fast enough in Los Angeles to meet the needs of the people who are moving to that city. Study the above statement and you will note that the states which are drawing from the common credit supply an amount equal to that drawn in 1920 are as prosperous as they were at that time, and that the states which are drawing less credit

than they did in 1920 are suffering from depression and bankruptcy. Where there is inflation there is prosperity and where there is unusual and unnecessary deflation there is business paralysis. From the standpoint of Iowa, Oklahoma, North Dakota, and Montana, the Federal Reserve system is not serving the farmers; is not doing the thing it was created to do; is a failure. It is not only failing to supply them with the credit they need but is taking from them their own credit supply which they would have if there were no Federal Reserve system.

We are permitting the nation's farm plant to be destroyed. The income is so low that ordinary repairs cannot be made, in fact the farmers are compelled to leave the farms and seek a living elsewhere. In 1928 the farm population drops to the lowest point in 20 years. We must give some attention to the nation's food supply.

This Federal Reserve Board has great power. By inflating and deflating the credit supply it can influence and almost control the average price level. All men are provincial, particularly bankers. An official must construe and administer the law with the mind he has, and his mind is the product of his training and experience. The Board at this time is sectional. Six of the eight members, or three-fourths of them, come from the northeastern quarter of the country. Most of them are bankers.

With two exceptions, the rate of bank failures is particularly low in the states from which they come. They are administering the law so that it meets the needs about which they are informed.

Of course, they cannot administer it to meet the needs of the farmer because they are not informed of his needs. More of the Board should have a knowledge of farming and come from the rural sections. Then, when the financial policy of the nation is made up, the needs of agriculture will receive more consideration.

Solution: 1. Eliminate sectionalism from the Federal Reserve Board.

2. Eliminate banker control. It is now administered by and for the great bankers.

3. Have 12 money centers, as contemplated by the law, instead of one.

4. Make the farmer's paper circulate as freely as acceptances or any other paper. In the absence of discrimination it is the best paper in the world.

5. Construe the law as intended so that the money from the country will not be withdrawn and used for stock gambling purposes.

6. In the distribution of American money and credit give first consideration to the needs of our own citizens.

We do not need a farm board nor a coal board but we do need an equitable administration of the laws by the Federal Reserve Board. The existing law is adequate. Common honesty and a zealous, equitable administration of the laws will solve the farm problem. In other words, the Government must function, must serve the purpose for which it was created and for which it is maintained. The weak (farmers) must be protected; the strong (international bankers) are able to take care of themselves.

Building Improvements at Daytona Beach

(Special Cor. Manufacturers Record.)

Daytona Beach, April 30.

That the great capitalists of the East and North are more and more turning their attention to superb winter homes in Florida is strikingly illustrated by what is taking place in this city. A few days ago James Laughlin III, of the Jones and Laughlin Steel Corporation, Pittsburgh, one of the greatest steel concerns in America, secured a building permit for a residence on the beach at an estimated cost, according to the permit, of \$51,000. The actual cost will probably very largely exceed that amount.

R. E. Olds, of Lansing, Mich., the multi-millionaire automobile manufacturer, who has had a home at Daytona Beach for some years, is greatly enlarging it at a heavy expense.

H. M. Rowe, of Westerly, R. I., probably the largest oyster planter and shipper in the world, though he already has an exceptionally fine home here, is building a much larger place on an estate which he has owned for several years, and the total investment of the building and improvements will likely represent over \$150,000.

The Princess Issena Hotel which for years has been notably successful, opening earlier and closing later in the spring season than the other leading hotels, has secured a permit for a four-story addition at a cost of \$60,000, although doubtless that much was spent last winter in making some marked improvements to that hotel.

The Clarendon Hotel, which claims to be "the finest hotel on the East Coast," was reconditioned and improved last spring at a cost of about \$75,000 to \$100,000 and so satisfactory was the past season that the owners have decided to spend \$100,000 on betterments, including a large number of private baths and a number of cottages on property adjacent to the hotel.

Permit for the \$28,000 building for the Tourist Church has been issued and a number of other important buildings are under construction, including residences for several of leading business men of other parts of the country, who have decided to make Daytona Beach their winter home.

All of these are definite projects for which the building permits have been issued and in most cases construction is actually under way. Work on these buildings will furnish a large amount of employment to mechanics, many of whom had been rather fearful that the summer would be a dull season for them.

Forest Lands Publicly Owned

OF 12,136,945 acres of forest land reported by the Department of Agriculture as owned by states and by mun-

icipalities and counties at the opening of this year, 969,281 acres, or approximately 8 per cent, were in the Southern

states and the District of Columbia. In the last three calendar years, 1,755,658 acres have been brought under state forest management, among the additions being: Louisiana, 3700 acres; Maryland, 5247; Texas, 62; West Virginia, 227. Three years' growth in the total of state park areas added 98,834 acres to the 1925 figure, making, with a loss in Wisconsin, 436,077. Arkansas has 1023 acres set aside for state park purposes, Georgia, 10; Louisiana, 250; Missouri, 35,155. Figures for the Southern states are shown in detail in the accompanying table.

State	Forest land owned by States			Municipal, County forests,		Total
	Forests Acres	Parks Acres	Other Acres	Parks Acres	Acres	
Alabama .....	.....	.....	175,000	19,232	.....	194,232
Arkansas .....	.....	1,023	.....	.....	1,023	1,023
Dist. of Col. ....	.....	.....	.....	3,833	.....	3,833
Florida .....	.....	4,000	.....	.....	4,000	4,000
Georgia	166	10	.....	.....	176	176
Kentucky	3,624	.....	15,000	.....	18,624	18,624
Louisiana	5,900	250	*282,000	1,000	289,150	289,150
Maryland	9,082	.....	6,986	19,910	35,978	35,978
Mississippi .....	.....	.....	.....	.....	.....	.....
Missouri .....	.....	35,155	46,000	5,000	86,155	86,155
N. Carolina .....	.....	1,724	†85,600	37,257	124,581	124,581
Oklahoma .....	.....	.....	‡27,300	.....	27,300	27,300
S. Carolina	967	.....	.....	.....	967	967
Tennessee .....	.....	.....	98,110	.....	98,110	98,110
Texas	5,694	550	50,000	1,500	57,744	57,744
Virginia	588	.....	1,500	9,700	11,788	11,788
West Virg'a.	15,620	.....	.....	.....	15,620	15,620
Total South	41,641	42,712	787,496	97,432	969,281	969,281
United States	6,556,735	436,077	4,417,556	726,557	12,136,945	12,136,945

*Mostly marsh, game preserves and shooting grounds.

†Including 77,000 acres of swamp land.

‡Approximate.



This Structure Spans the Arkansas River and Replaces the Bridge Destroyed by Flood in 1927

New \$1,600,000 Railway Bridge at Little Rock

The Missouri Pacific Lines have spent several million dollars in improving their Arkansas facilities since the flood of 1927, \$1,600,000 going into construction of the new bridge, the "Southerner," connecting Little Rock and North Little Rock. About \$1,200,000 was expended for installation of automatic block signals, \$1,500,000 for double track and \$3,000,000 for raising the track in sections of the state inundated by flood waters of the Arkansas and White rivers. The old bridge was damaged by floods in 1927, but also the development in traffic en route to, from and through Little Rock, had so increased that an additional bridge had become necessary.

Preliminary studies were made in 1925 and 1926 for complete replacement of the then existing bridge, with a double track structure to accommodate the increase in weight and large increase in traffic, planning to start construction in 1929. In April, 1927, however, the Arkansas River reached an extremely high stage, and on April 19 piers supporting the center and north end of the draw-span showed indications of failure. The bridge was closed to traffic and loaded with 15 cars of coal, the additional weight designed to hold the structure against pressure from water and drift. But the two piers collapsed, taking the draw span and a 178-foot truss span. The stage of the river then was 34.4; the flood stage is 24.5.

Plans were prepared for restoring the bridge and for constructing a new bridge. Complications held up the new structure until early in 1928, when the War Department gave its approval and contract for foundation work was awarded to the Missouri Valley Bridge

& Iron Co. The American Bridge Co. had contract for furnishing and erecting steel superstructure. The new bridge provides for two tracks, and consists of the following: A 70-foot deck girder span; 116-foot deck girder span; 185-foot lift span; three 185-foot fixed spans; 100-foot deck girder span, and three panels of concrete trestle approach.

Girder spans are provided with reinforced concrete deck, and truss spans with creosoted open deck. Spans are supported on concrete piers carried to rock with the exception of the north river bank pier which is supported on foundation piles driven to rock. Five piers were sunk by pneumatic process and the foundations carried from two to five feet into solid rock, or from 70 to 93 feet below the base of the rail. The lift span provides for a clear channel width for navigation of 175 feet; towers at each end permit raising it a total of 37.3 feet, giving an overhead clearance at flood stage of 51.8 feet for passage of boats. Duplicate power units are installed for operating the lift span in any emergency.

Following are the quantities of materials used in the superstructure and substructure: Concrete in piers and trestle approach, 12,200 cubic yards; reinforcing bars, 165,000 pounds; structural steel in superstructure, 6,650,000 pounds; machinery, 189,000 pounds.

Work on the substructure was completed November 23, 1928. Difficulty encountered in sinking the piers was due to the large amount of riprap around the old piers. Much of the time, three shifts were used daily. Contract for steel work involved preparation of a large number of plans and the American Bridge Co.

placed a special force on this work to facilitate completion. Erection was started early in September, using three 60-ton locomotives and one 70-ton derrick car.

The collapsed draw span and the coal cars had lodged below the bridge, necessitating clearing the channel to a depth of nine feet below zero on the gauge to provide a navigable channel. This work, involving the removal of 250 tons of submerged steel and nine coal cars, was handled by company forces. Cutting the steel under water to permit its removal was by the use of dynamite. The Big Rock, Stone & Material Co., which operates sand dredges and tow boats at Little Rock, co-operated with the railroad in maintaining navigation while the new bridge was under construction.

Construction of the two track bridge involved the rearrangement of tracks between the structure and Union Station in Little Rock, necessitating the removal of the old North Street viaduct and excavation of the rock bluff. The new Lincoln Avenue viaduct provides 30 feet of roadway and two 5-foot sidewalks.

\$350,000 Cotton Compress Proposed at Houston by New Orleans Firm

Houston, Tex.—Atkinson & Co., New Orleans, have purchased a 40-acre tract on the Ship Channel and will erect a compress and warehouse estimated to cost \$350,000. The new compress will be known as the Port City Compress, and will have a capacity of 50,000 bales. The warehouse will be of reinforced concrete, steel and brick.

A Sane and Sound View of the Mediterranean Fly in Florida

Howey, Fla., April 29.

Editor Manufacturers Record:

It is no particular crime for a city to awaken to the fact that it has typhoid fever in its midst, but it is a crime to keep it or permit it to continue. That is, in a sense, the way I view the Mediterranean fly. We now have it with us but through intensified organization we can, will, and must get rid of it.

When we review the citrus industry we realize that with the introduction of the white fly the alarm was national in scope, and indeed many people chopped down their trees, but today we pay no attention to the white fly. With the introduction of Cottony Cushion scale many people stampeded and sold their groves in alarm, but today we pay no attention to Cottony Cushion scale. When the citrus canker was discovered everyone became alarmed, but now apparently we have no more citrus canker.

The citrus business seems to stand alone among practically all the agricultural products in that it is able to solve every problem. It seems as though the hand of Providence protects the industry. And like wheat, which has its enemy but without solution, citrus too has its enemy but with a host of friends standing ready to checkmate if not eliminate the enemy.

When the sparrow was introduced into this country it was for the purpose of eradicating a harmful pest. Then the sparrows multiplied so fast that we had to find a check for the sparrows.

When the Belgian hare was introduced it was for a specific purpose but they overran the plains and today we have a check for them.

I am unable to work myself into a fever of excitement over the Mediterranean fly. I appreciate its possibilities, but with intelligent organization and with what little we know of measures which are brought into play quickly we will render it impotent. I am concerned only with the esprit de corps which is now manifested throughout the country and with the officials at Washington who have responded generously, quickly and effectively looking to its control.

There are a few groves where it has actually been found. The method is to spray the grass and weeds in the infested area with a syrup of arsenic solution so that when the fly first comes out of the ground and looks for something sweet, we've caught it. The maggot which leaves the fruit after the fruit leaves the tree goes into the ground and becomes a pupa which again develops into the fly. Now if they can find a method of getting the pupa in the ground they have solved the problem. We do know

that anything that lives, breathes and has its being in the ground is susceptible to annihilation from gases.

Some 300 years ago a Scotchman put some grass in the ground and called it a golf course, and some more grass in a distant spot and called it a putting green. Then his troubles began. It wasn't long until grubs and worms got into these putting greens and destroyed the accuracy of the ball to such an extent that golf was seriously endangered. Then it was they devised a wash with a solution of cyanide and at a later date a wash with a solution of arsenic of lead, guaranteed to eliminate all worms and grubs from putting greens. So the golf course came into its own with a vengeance.

There will be some solution, something of a kindred nature, which will

result in the elimination of the pupa in the ground and there goes your Mediterranean fly. It is a problem which will yield to intensified organization, to a determined effort of eradication directed by intelligent effort, and all of this is now being done.

I do not consider the citrus industry as susceptible to harm and damage as peaches, pears and other fruits, and vegetables and cotton. The fly does not work except in overripened citrus fruit. Therefore, we can market much of our fruit in the usual way. And then there are the by-products which are always at hand such as processing juice, canning the hearts of grapefruit, etc., but these other fruits and vegetables, cotton, etc., have not that advantage.

W. J. HOWEY.

[Mr. Howey is one of the foremost citrus growers of Florida and, for the 10,000 or 12,000 acres in oranges and grapefruit controlled by him, has the most scientific management that can be secured.—Editor MANUFACTURERS RECORD.]

Organize Loyal Workers Association

Rayon Employees Petition Bemberg and Glanzstoff Management to Reopen Plants

As a backfire to agitation among textile workers in the South by industrial and other radicals from other sections, about 1500 workers have organized as the Loyal Workers of Bemberg and as the Loyal Workers of Glanzstoff, at Elizabethton and Johnson City, Tenn. The sentiment in both organizations, was expressed in a memorial, embracing loyalty to the plant managements, willingness to work, objection to "outside interference," and approval of arbitration for the settlement of any differences between employers and employees. Dr. S. C. Rhea, who is connected with the chemical department of Bemberg and is head of the organizations, made the announcement. The petition follows:

Dr. A. Mothwurf, President,
American Bemberg Corporation,
Elizabethton, Tennessee.

Dear Sir:

We, the representatives assembled from all departments of the American Bemberg Corporation, respectfully submit, for your consideration, resolutions and petitions as follows:

Resolved, That, at this trying hour for the management, we take this opportunity of pledging to you our continued support, loyalty and co-operation, unqualified and unservedly.

We have watched with growing concern the dissatisfaction and unrest displayed by some of our fellow workers, caused by the coming into our community of some several "Spielers" and "Agitators," hired for the business.

We know that the management has

been lenient and conciliatory in dealing with them. We believe that some of our workers have been misled and deceived. We think that they passed all bounds of reason in the climax Monday afternoon, April 15. Furthermore, we emphatically resent being threatened, intimidated, insulted, abused and driven from our labors and the peaceful pursuit of earning a living for ourselves and families in the manner we were—be it by any person or persons of any organization whatsoever.

We do not believe that it is either necessary or desirable that an outside party should voluntarily or otherwise come between ourselves and the management; but that it would be far better for all concerned to have a committee, to be chosen from the rank and file of our workers, to bring up any matter deserving the attention of the management to them. A committee has been appointed to formulate the plans for this organization.

We, the loyal workers of the organization, believe that we have stood by long enough; that it is time that we take some action to protect ourselves. We further believe that there is no good to be gained by dealing with members of an organization with ideas which they have demonstrated. We, therefore, petition that you do not deal with them further, but that as soon as we are accorded ample protection by the civil authorities, you open your plants for the resumption of operations, giving us a chance to resume our labors. We have sufficient loyal workers for the plant to resume operations in the usual volume of production.

LOYAL WORKERS OF BEMBERG,
DR. S. C. RHEA, President.

Gas Tax Collections \$305,233,000 in 1928

10,178,341,000 Gallons of Gasoline Consumed by Motor Vehicles — 3,455,533,000 Gallons Used in the South on Which \$120,415,000 of Taxes Were Collected

BY AUGUST 1 ALL STATES WILL HAVE ADOPTED THIS METHOD OF RAISING REVENUES, MOST OF WHICH IS ALLOCATED FOR HIGHWAY WORK

GASOLINE taxes amounting to \$305,233,842 were collected on the sale of 10,178,344,771 gallons of motor fuel in 1928, according to the Bureau of Public Roads. The gas tax revenue in the Southern States in 1928 was \$120,415,277, collected on 3,455,533,181 gallons of gasoline used by motor vehicles in the South that year.

Massachusetts and New York, the only states without a gasoline tax in 1928, have since passed laws providing in Massachusetts for a 2 cent tax effective January 1, 1929, and in New York for a 2 cent tax which went into effect May 1. The figures include the tax collected and the gasoline consumed in Illinois during the month of January only, owing to the fact that the law providing for the state's 2 cent tax was held invalid on February 24, 1928. As the Illinois Legislature has passed a new law, which provides for the collection of a 3 cent tax effective August 1, that date will mark the final adoption of the tax by all states, 10 years after its adoption by Oregon and Colorado, the pioneer states in this method of raising revenues.

Tax Rate Changes

Changes in the rate of taxation were effected in four States during the year. The New Hampshire tax was increased from 3 cents to 4 cents a gallon on the first day of the year. Virginia added a half-cent on March 19, 1928, making the new rate 5 cents a gallon. The Texas rate was reduced on September 1 from 3 to 2 cents a gallon; and Mississippi raised its rate from 4 to 5 cents a gallon on December 1 last.

The average rate per gallon in 1928 was 3 cents; the highest was 5 and the lowest was 2 cents. At the close of the year the rate in effect was 5 cents in seven States, 4 cents in eleven States, 3½ cents in one State, 3 cents in 14 States, and 2 cents in 12 States and the District of Columbia.

Comparison of the total number of vehicles registered with the total tax collected in the States in which the tax was effective throughout the year shows an average revenue of \$15.09 per vehicle.

Allocation of Gas Tax Revenue

After deduction of the costs of collection the entire net revenue was used for rural road purposes in 35 States. In the

remaining 13 States and the District of Columbia a total of \$18,491,754 was devoted to other purposes. In three States a portion of the collections was used for public school purposes. The January collections in Illinois were held at the disposal of the court. In five States a portion of the revenue went to cities for the construction and repair of streets, as did the entire collection in the District of Columbia. In two States small sums were deposited in the general funds of the State; in Mississippi special taxes in addition to those collected at the regular rate were used for the construction of a road-protecting sea wall; in New Hampshire a fourth of the net collection was used for the repair of flood damage; and in one State—New Jersey—

a small portion of the receipts was turned over to the State Department of Commerce and Navigation.

Of the portion of the total revenue devoted to rural road purposes, the amount used for construction and maintenance of State highways was \$211,046,501; for construction and maintenance of local roads the amount was \$57,380,901; and the balance of \$17,619,995 was used for payments on State and county road bonds.

BEGIN WORK ON BIG APARTMENT

\$1,000,000 Structure in St. Louis

St. Louis, Mo.—Work has started on a 16-story apartment to cost approximately \$1,000,000 on the northwest corner of Skinker road and Northwood avenue for the Skinker-Northwood Investment Co. It will occupy a site 144 by 150 feet. The suites will be so arranged that they may be enlarged or decreased to suit the needs of tenants, from suites of 10 rooms with six baths to suites of two rooms and one bath. The architect is F. G. Avis. The Modern Construction Co. is the general contractor.

\$10,000,000 EQUIPMENT FOR RAILROAD

Southern Pacific to Place New Cars and Engines in Use This Year

New railway equipment costing \$10,000,000 is expected to be put into service this year or the early part of next year on the lines of the Southern Pacific Company, according to an announcement by Paul Shoup, president, as stated in press reports. Orders already placed or awaiting bids are said to include 26 locomotives and tenders, 20 locomotive tenders of 16,000 gallons capacity, 90 passenger cars, 717 freight cars and 25 pieces of work equipment. Sixteen of the new locomotives will be of the mallet type for use in mountainous territory and the remaining ten of the mountain type, all to be used on the Pacific lines. Seventeen of the new passenger cars will be used on the Texas & Louisiana lines and fourteen on the Northwestern Pacific lines, while the remainder will be used on the Pacific lines. Most of the freight cars will be used on the Pacific lines.

GASOLINE TAX COLLECTIONS AND GASOLINE CONSUMED, BY STATES, 1928.

State	Total tax earning on fuel, and miscellaneous receipts	Net gallons of gasoline taxed, and used by motor vehicles
Alabama	\$6,614,297	162,438,774
Arizona	2,018,238	50,455,046
Arkansas	5,382,782	106,147,481
California	29,566,769	985,558,973
Colorado	3,921,224	130,707,467
Connecticut	3,511,675	173,437,589
Delaware	800,349	26,678,310
Florida	11,257,617	224,704,496
Georgia	8,245,486	206,137,161
Idaho	1,884,023	47,096,637
Illinois*	*836,826	*41,841,273
Indiana	11,177,549	372,584,968
Iowa	8,535,628	284,520,934
Kansas	5,394,841	269,742,067
Kentucky	6,743,224	134,835,629
Louisiana	3,380,931	169,046,556
Maine	3,192,384	79,011,319
Maryland	5,425,873	135,646,826
Massachusetts ..		
Michigan	18,334,840	611,161,335
Minnesota	5,768,100	288,404,998
Mississippi	5,696,553	136,334,223
Missouri	6,948,229	347,411,433
Montana	1,683,404	56,113,461
Nebraska	3,941,164	197,058,187
Nevada	531,186	13,279,660
New Hampshire ..	1,884,175	47,079,932
New Jersey	8,470,336	422,346,478
New Mexico	1,852,037	36,738,005
New York		
North Carolina ..	9,787,011	244,675,269
North Dakota	1,479,469	73,973,434
Ohio	24,885,699	829,523,293
Oklahoma	8,147,901	279,996,597
Oregon	4,008,259	144,284,704
Pennsylvania	21,998,064	733,268,795
Rhode Island	1,182,328	59,116,396
South Carolina ..	5,518,240	110,364,802
South Dakota	3,158,873	78,965,809
Tennessee	5,134,690	171,153,333
Texas	17,945,037	681,135,373
Utah	1,664,652	47,577,166
Vermont	1,118,882	37,311,088
Virginia	8,616,239	174,800,793
Washington	4,206,515	210,325,734
West Virginia	4,308,109	107,547,068
Wisconsin	6,856,759	342,837,969
Wyoming	954,317	31,810,563
Dist. of Columbia	1,263,148	63,157,367
Total	\$305,233,842	10,178,344,771

*Only January tax receipts reported, as law was found invalid by Supreme Court, February 24, 1928.

IRON, STEEL AND METAL MARKET

Steel Maintains Its Top Notch Position

Pittsburgh, May 6—[Special.]—The strength of the steel situation has become rather monotonous. There are no new developments of consequence and trade talk is largely of the future, whether or when there will be a decrease in the demand upon the mills. There is little buying, in the ordinary meaning of the word, consumers being covered by contracts on which they are simply specifying.

Since the middle of March steel production has been at very close to the full rated capacity. In the last fortnight it has been a shade above capacity, the difference being made chiefly by producing units responding better to the pressure for maximum tonnage, while there is also the point that, with steel very scarce in the Chicago district, production has been increased at Duluth, to ship semi-finished steel to Chicago district finishing mills. Some Alabama steel is going farther towards Chicago than is usually the case.

Chances are that the April steel ingot production report will show a slight increase over March, when production of Bessemer and open-hearth was equal to 99 per cent of the capacity rating of December 31, 1928, issued after the March report was made up.

Mills do not thus far report observing any relaxation of demand from the automobile industry, but it is reasonably clear that the requirements in that direction are decreasing. April production of automobiles was in all probability slightly above that of March, but some makers had decreases late in the month. As production has been phenomenally heavy and the usual date for seasonal decrease has been passed, there is no doubt less buying and specifying, since shipping orders placed now would require several weeks for execution.

In no other steel outlet is there any decrease in requirements, while there are increases in some directions. More shapes and plates are being required for fabricated structural steel work and there are seasonal increases in pipe, nails and sheets for ordinary building purposes.

Steel prices are quite steady. The very heavy demand does not bring about any general advancing tendency, as large buyers are well covered by contracts. When various consumers have been seeking heavier deliveries than they are receiving it might be thought they would offer premiums for early delivery, but the average steel consumer is working on close margins and could not well

afford to pay anything extra, while as all mills are well sold up there would be no sellers to take prompt business. Semi-finished steel is up, however, by recent price announcements, \$2 on billets and slabs and \$1 on sheet bars. Mills being well sold, there is little, if any, business done at the higher figures, but from the present outlook they seem likely to prevail for third quarter.

The scrap market has weakened slightly, various grades being down 25 or 50 cents in the week. According to various precedents this would be taken to presage a decrease in steel production in say five to seven weeks, but it may be that the declines merely represent a little sagging towards normal as scrap prices have been unusually high in the last few months.

Pig iron is decidedly dull as the foundries are not at all busy. The valley market is quotable at \$18.50 to \$19 for Bessemer and \$18 to \$18.50 for basic and foundry. Producers claim the higher figures, representing a recent advance in asking prices, are rigid, but there has not been enough demand to furnish a crucial test.

The Connellsville coke market remains dull, but it has an undertone of strength in that prices do not weaken in face of the light demand.

The Steel Corporation's earnings in the first quarter, \$60,105,381, were 13 per cent above the fourth quarter of 1928 and 47 per cent above the first quarter. The increase was due chiefly to tonnage, prices realized on shipments gaining only a trifle. Shipments of steel products in the quarter were approximately 3,900,000 tons, being record high, while earnings were record high for any quarter since the war.

Stable Metal Prices With Light Buying

New York, May 6—[Special.]—The metal markets are for the most part situated between buying movements. Prices are steady and buying is rather light. The eyes of the business world are focused on copper to see what the next jump in price will be, if any. Present prices are continued at 18c, delivered to the Connecticut Valley, and 18.30c c. i. f. European ports. Probably as many observers expect the price to dip towards 16c as to reach up to 20c.

Both zinc and lead have settled in prices a bit though not definitely reduced in price. After tin reached a new low price since 1923 the previous week, prices have been fluctuating at $\frac{1}{2}$ c to $1\frac{1}{2}$ c per pound above that low. April sales of standard tin on the National Metal Ex-

change were 6210 tons, a record for a month since the exchange was started December 3.

Trading in standard copper futures will start on the same exchange on May 15. It is expected that copper trading may be more popular than tin, since copper is more distinctly an American product. It is pointed out by officials of the exchange that the facilities will give the consumer of refined copper a chance to hedge so that violent fluctuations, such as were witnessed earlier this year, will not affect the consumer. In other words, when the maker of washing machines buys a tonnage of copper sheets he may sell standard copper futures on the National Metal Exchange and guard himself against fluctuations of the metal before his washing machines are sold.

The principal development among the minor metals has been the easier feeling which has developed in quicksilver. Though the quoted price is still \$123 per flask, it is intimated that it might be bought at \$122.50 on firm offers. Stocks of quicksilver in Europe are beginning to become burdensomely large and hence the easier feeling. Silver prices fluctuate narrowly and there has been no real change in antimony prices for several weeks, prices being around 9 $\frac{3}{8}$ c per pound, duty paid.

The steel industry continues to set a brilliant pace for the non-ferrous metals. Pig iron production in April was the third largest as to daily rate in history. The Steel Corporation and Bethlehem Steel have been working at 103 per cent of rated capacity, the best in their history.

Having more direct bearing on the non-ferrous metals is the speeding of operations among the tin plate mills which are working at 96 to 100 per cent of capacity. The steel sheet industry is the most active in its history which accounts for a large consumption of zinc for galvanizing purposes.

Three custom smelters are practically the only sellers of copper. They have about 1000 tons daily to dispose of and have just about succeeded in doing so. The large producers continue out of the market, for there is no big business in sight since consumers are largely covered on needs through July. When April statistics are issued on May 13, the showing may influence some consumers to buy further into the future if it seems that a scarcity is likely to continue.

Most consumers feel at ease about future copper supplies. Despite the many frequent references to low surplus stocks at the refineries there has been

no distress from lack of copper. Production is record-breaking and the time of the year is near at hand when there is a natural abatement of consumption. Copper consumers have seen recently that the copper price is vulnerable. They see no reason to buy now for perhaps prices will go lower.

Prominent copper company officials have stated recently, however, that consumption does not need to be curtailed; that conditions warrant a stabilized price at 18c; that consumption will not slacken perceptibly. Consumers are rather reluctant to pay the present price, knowing how far above the costs of production the selling price is.

The zinc situation has a weak undertone because for several weeks the production has been twice the sales of ore. A week ago the price of prime western slab zinc ranged from 6.55c to 6.80c per pound, East St. Louis. During the past week, however, large producers rather abandoned the maximum figure and the range became 6.55c to 6.60c. Sales were very light. In fact, April was a poor month for the reason that so much metal was bought in March.

The world's visible supply of tin declined 279 tons during April to 26,353 tons. Straits tin shipments to all countries last month were 8950 tons, whereas monthly averages over the preceding three years were 6500 tons. This is a bearish development. However, it was offset by American tin deliveries of 8435 tons, a measure of American consumption, which compares with a monthly average of 7000 tons over the past three years.

Lead prices sagged 5 points during the week in the East St. Louis district to 6.80c per pound, the New York quotations remaining at 7c. Business was moderate.

Less Activity in Pig Iron—Steel Fabricating Shops Busy

Birmingham, May 6—[Special.]—Buying of pig iron is not hitting a very active pace and furnace interests are now watching difference between make and sales, curtailing the output where it is deemed advisable. One blast furnace has been closed down and another is scheduled to follow shortly, in both instances this being temporary. As soon as surplus stock of foundry iron has been cut into a little, steady production will be resumed. Quotations are still given on a \$15.50 per ton, No. 2 foundry, base. Shipments of iron to the North and East, outside of the home territory, have not been very strong. Reports as to concessions on the \$15.50 per ton base have dimmed. Tonnage on furnace yards is large but no fear is expressed that it will retard the market. Survey of iron-using industries would indicate that

there will be greater requirement of pig iron and the new month is believed to hold out bright prospects. Several of the foundries and machine shops are reporting active business.

Steel mill operations are steady, on the whole, at 85 per cent capacity. George Gordon Crawford has made this formal statement: "The steel-producing capacity of the Tennessee Coal, Iron & Railroad Company is now about 85 per cent occupied; present inquiries indicate a growing demand which justifies the belief in increased production in most of our products."

The Gulf States Steel Company has four out of six open hearth furnaces in operation and much activity through its finishing mills, some products being in splendid demand.

Steel fabricating shops of the district are very busy, the Ingalls Iron Works Co., for instance, operating departments day and night to complete contracts in hand.

Purchasing of pig iron is in light tonnage, spot buying. There is yet a portion of the probable make for the last two months of the quarter still to be sold. No consideration is being given to requirements for the third quarter. Seventeen furnaces were in operation on the turn of the month with the larger producers on basic iron.

Foundries and machine shops report activity, the Goslin-Birmingham Machine & Foundry Company in particular announcing sugar machinery being made for big refineries in the Philippines and in Brazil, 3000 tons of metal to be used on these two jobs, while Webb cotton presses will be turned out in number, 1600 tons of pig iron at least to be used. The company is shipping 100 tons additional in machinery to the Atmospheric Nitrogen Corporation at Hopewell, Va. The Hardie-Tynes Manufacturing Corporation has a well filled book of orders, including air-compressors for use in the Birmingham district and elsewhere besides other heavy machinery including hoist apparatus for mines of the section.

Reinforcing steel concrete bars, lighter weight steel shapes, such as cotton ties, hoops and railroad accessories are in good demand. Rails continue sluggish.

The Portland cement industry is not receiving the demand that was expected. Brick manufacturers, in fact all clay products, are being called upon for delivery in quantity.

Coal mining shows no indication of improvement. Coke is steady; foundry coke has maintained the \$5 base, f. o. b. ovens, for some time.

Scrap iron and steel is lagging, though there is much old material moving on contracts placed some time ago. It is again stated that the list of prices given is but nominal though heavy concessions are not admitted. Plenty of old

material is obtainable by dealers and others.

Pig iron and iron and steel scrap quotations follow:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$15.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.00; iron of 2.75 to 3.25 per cent silicon, \$16.50; iron of 3.25 to 3.75 per cent silicon, \$17.00.

OLD MATERIAL.

Old steel axles	\$17.00 to \$18.00
Old iron axles	17.00 to 18.00
Old steel rails	13.00 to 14.00
Heavy melting steel.....	10.50 to 12.50
No. 1 cast.....	13.00 to 14.00
Stove plate	12.50 to 13.00
No. 1 railroad wrought....	10.00 to 11.00
Old car wheels	11.00 to 12.00
Old tramcar wheels	12.00 to 13.00
Machine shop turnings....	7.00 to 8.00
Cast-iron borings	7.00 to 8.00
Cast-iron borings (chem.)..	13.00 to 13.50

CONTRACT FOR \$1,000,000 BLOOMING MILL AT GADSDEN

Gulf States Steel Company to Expend
\$5,000,000—Improvements for Tennessee, Alabama and Georgia
Railroad.

Gadsden, Ala.—The Gulf States Steel Co., W. H. Coverdale, New York, president, let contract to the United Engineering Foundry Co., Pittsburgh, Pa., to build a 40-inch blooming mill at the steel mills here. Within another two weeks, it is said, contracts will be awarded for the construction of a sheet and plate mill, all construction to be completed early in 1930. The blooming mill will cost about \$1,000,000 and other developments about \$4,000,000.

Mr. Coverdale and associates, who recently purchased an interest in the Tennessee, Alabama and Georgia Railroad, states that steps are being taken to improve the road which now extends from Chattanooga to Gadsden. New bridges will be built to replace smaller structures and the road improved for heavy hauling. An extension to Birmingham or a connection with the Seaboard Air Line Railroad will soon be considered and plans perfected for the purchase of locomotives, cars and for laying 85-pound and heavier rails along the line.

With the project here of the Goodyear Tire & Rubber Co., upwards of \$15,000,000 is being expended in Gadsden. Among the projects under way are two hotels, a large number of dwellings for operatives of the tire and rubber company, extension of water mains by the city, construction of county and state highways, \$750,000 braid mill and other work.

Raymondville, Tex.—Voters of road district No. 3 in Willacy County recently voted a bond issue of \$400,000 for the construction of a concrete highway to extend east and west from Lyford to the Hidalgo County line.

AVIATION, AIRPORTS AND AIRWAYS

South Has 23 Per Cent of Country's Airplanes

Of 5821 registered or identified airplanes in the United States at the opening of April, as computed by the Aeronautical Chamber of Commerce, 1370 were in the Southern States and the District of Columbia, or over 23 per cent. California led the list with 914, Texas with 293 was seventh, Missouri with 266 was eighth and Oklahoma with 192 was ninth. The Southern States were thus listed:

State	Bi-planes	Mono-planes	Misc. surplus	Total
Alabama	11	1	3	15
Arkansas	36	1	9	46
District of Columbia	40	11	2	53
Florida	49	4	15	68
Georgia	36	1	16	53
Kentucky	28	5	9	42
Louisiana	34	10	22	66
Maryland	21	5	11	37
Mississippi	19	0	1	20
Missouri	166	33	67	266
North Carolina	54	8	10	72
Oklahoma	113	32	47	192
South Carolina	17	1	4	22
Tennessee	37	6	8	51
Texas	128	41	124	293
Virginia	34	9	6	49
West Virginia	13	2	10	25
Total	836	170	364	1370
United States	3555	886	1389	5821

Alaska is credited with nine planes of all kinds.

Aeronautical Exposition at Macon, Ga.

One of the first exhibitions of aircraft in the Southeast, from the standpoint of showing the public the latest in flying equipment, is scheduled for Macon, Ga., May 31 through June 2, when the Macon Junior Chamber of Commerce will hold the Southeastern Aeronautical exposition, on Miller Field, the municipal airport. Manufacturers from all sections are to send their latest flying equipment for display and, while there will be stunt flying, races, and other events typical of air meets, the ground displays will predominate. The occasion also will mark the dedication of Miller Field to night flying. It is planned to make the exposition a display of the progress made in the 10 years since the first National Aeronautical Congress, held in Macon in 1919.

Work on \$14,000,000 Flying Field

San Antonio, Tex.—Work will probably begin in June on the first unit of a proposed \$14,000,000 flying field and school at Randolph Field, near this city. An appropriation of \$7,531,000 is available for starting the project, which will involve a circular layout with an officers' mess as the center. Construction will involve the erection of an administration building, 300 by 130 feet, with a 175-foot water tower; 350 officers' homes,

barracks, non-commissioned officers' quarters, flying school, school for children, gymnasium, chapel, post exchange, quartermaster's warehouse, air corps warehouse, garage, technical buildings for air corps, 26 hangars to house 18 or 20 planes each, hospital, nurses' quarters and other structures. The architecture will be of Spanish design. Two or three flying fields will be provided, each about two miles long and from 2600 to 3000 feet wide, equipped with floodlights. Underground conduits will be installed and 36 tennis courts laid out. The work is being handled by the War Department, Washington, through the office of the Quartermaster General, Brigadier-General William E. Horton, assistant.

Airport Plans at West Palm Beach

Suitable hangars and service stations are planned at the Belvedere park airport, West Palm Beach, Fla., with a flying school and other new developments, Arthur S. Hobby, chairman of the new industry committee of the Chamber of Commerce, told directors of the Chamber at a recent meeting. Work of further developing the Belvedere tract is proceeding steadily, with M. D. Carmichael as owner and developer.

Colonel Lindbergh Advocates Washington Airport

Recommendation that an airplane terminal station "equivalent to a good railroad station" be established at Washington was presented by Colonel Lindbergh to a joint committee of Congress in discussing a proposed Washington airport. It soon will be possible, he said, for airplanes to land at an airport even if the pilots cannot see the ground. Washington, Colonel Lindbergh added, "should have an airport equal to any in the world."

First Airport Convention

Leading figures in the aeronautical world, especially those well versed in establishment, development and operation of airports, together with Government aeronautical officials, will be the principal speakers on the program for the first annual airport convention, in Cleveland, May 15, 16 and 17, under auspices of the airport section of the Aeronautical Chamber of Commerce. Questions pertaining to airport problems will be discussed in sessions at the Cleveland Hotel. More than 200 airplanes are expected to be used to carry the delegates to the convention, and the courtesy of the Cleveland airport has been offered to all fliers.

Sugar Company Buys Plane

Announcement is made that the Southern Sugar Company, Clewiston, Fla., has purchased a second airplane for use in its business. The first plane was a Challenger Robin and the second is a Sikorsky amphibian, both sold by the Kruger Airline, Inc.

Aeronautical Light, 15,000,000 Candlepower

An aeronautical lighthouse, 450 feet in the air, is planned for Houston, Tex., the beacon to be one of the most powerful in the United States. As approved by the commissioner of lighthouses of the Department of Commerce, the beacon will have a beam of 15,000,000 candlepower, pointing skyward, tilted slightly and revolving. Airmen, it is estimated, will be able to see the shaft of light at a distance of 50 miles, and as they near the city will see a second ray, of 8,000,000 candlepower, which will be directed downward to play on the city airport. The Houston airport and the Texas Air Transport, Inc., have approved these searchlights, which are said to be of latest lighthouse design. The lights will be placed atop the Gulf Building, a 37-story structure, one of the highest and largest buildings in the South.

Largest Building in the World

Under construction by the Goodyear-Zeppelin Corporation at Akron, Ohio, as an airship factory and dock, is a building which is thus described: "The largest building the mind of man has yet conceived is being built today in Ohio—a building so huge that 14 football fields could be put within it and still leave room to spare—a building that literally stretches itself out over the ground when the sun beats down on it and shrinks again when coolness comes—a building that rests on giant moving rollers, instead of being firmly anchored to its foundations—a building with such tremendous doors that the task of opening one of them is equal to swinging the side of an 18-story skyscraper on hinges—a building so vast and hollow that a windstorm can attain cyclonic proportions within its four walls."

Among the aircraft to be constructed in this building will be two dirigibles for the United States Navy which will carry within themselves complete airplane hangars where from four to six planes can be housed. These planes can be launched in flight and picked up in flight, while also the dirigibles will carry light artillery, as compared with an airplane's machine guns.

HIGHWAYS AND MOTOR TRANSPORT

Highway Beautification

Writing in the Southeastern Cleaning & Dyeing Digest, Jacksonville, Fla., the president of the Florida Legislative Council, Mrs. W. S. Jennings, appeals for the preservation of natural beauty along the highways of the state. And in order to further the movement, Mrs. Jennings reports that the Duval County Highway Beautification Association has been started with a goal of 10,000 members, "to save the highways of this immediate locality from an imminent barren ugliness and to act as a stimulant and a leader for the other counties of the state."

Change Date of Highway Bids

Baton Rouge, La.—Bids will be received until May 28 by the Louisiana Highway Commission, instead of April 30 as previously announced, for the construction of a number of road projects, including the following:

Beauregard parish — Merryville-Starks highway
Caldwell parish—Columbia-Chatham and Brayson-Dodson highways
East Carroll parish—Kilbourne-Gassoway highway
LaFourche parish—Thibodaux-St. Patrick highway
Ouachita parish — Perryville - Collinston highway
Vermillion parish — Abbeville-Intracoastal Canal highway
Washington parish—Sun-Franklinton and Richardson-Arcola highways.

Texas County Plans \$2,250,000 Road Bond Election

Liberty, Tex.—According to information from T. B. Worden, engineer of the Gulf Coast Good Roads Association, plans for a bridge across the Trinity River on the Old Spanish Trail have been completed and construction bids will be received in June, provided a bond issue of \$2,250,000 for roads and bridges is voted in Liberty County at an election to be held May 19. E. B. Pickett, Liberty, is promoting the bond issue for the construction of the proposed bridge and lateral roads in the county.

Alabama Asks Bids on Bridges

Montgomery, Ala.—Bids have been invited by the Alabama State Highway Department, Woolsey Finnell, highway director, for the construction of bridges in various sections of the state, proposals to be received until May 14 for structures in Dale, Wilcox, Russell, Geneva, Houston, Dale-Coffee, Baldwin, Dallas, Butler, Escambia, Pike, Conecuh, Elmore, Montgomery, Monroe, Covington and Crenshaw counties. Bids will be received until May 21 for structures in Conecuh, Lowndes, Conecuh-Monroe, Choctaw, Russell and Shelby counties.

\$4,500,000 BRIDGE APPROVED

War Department Authorizes Building of Potomac River Structure

Plans of the George Washington Wakefield Memorial Bridge Co., Channing M. Ward, president, Richmond, Va., for the construction of a \$4,500,000 bridge across the Potomac River, near Dahlgren, Va., have been approved by Assistant Secretary of War Patrick J. Hurley, according to press reports. The plans are said to provide a draw opening with an unlimited vertical clearance and

a horizontal clearance of not less than 150 feet clear width, normal to the axis of the channel. The plans also provide that the channel span will have a horizontal clearance of 250 feet and a vertical clearance when closed of 76 feet, and will be of two-leaf bascule construction.

Dallas (Tex.) County Commissioners will open bids May 20 for paving with concrete 3.23 miles of the Buckner memorial boulevard.

New Sleeper Buses in Operation

Two Coaches Built for Chicago-to-New York Service

Two sleeper buses, designed and constructed by the Bender Body Co., Cleveland, Ohio, on chassis built by the C. H. Will Motor Corporation, Minneapolis, have been placed in operation by the Great Lakes Stages, Inc., operating from Chicago, through Cleveland, to New York City. Each will accommodate 18 persons, in six double and six single berths. Modern and luxurious fittings and equipment have been introduced into this sleeper coach. Among the important features are:

"No-draft" forced ventilation, which renews the air inside the coach every four minutes. The upper and lower berths have double outside windows fitted with safety glass, also with screens for summer. The sleeping quarters are said to be equal to a stateroom in privacy when made up, while for day service, the sliding division partitions permit opening up the interior to form a chair car. Such modern facilities as cooled drinking water, electric fans, and comfortable beds and seats are provided. When berths are made, handy collapsible seats are available for the comfort of the occupants. Completely modernized washrooms are provided in the rear of the coach with every facility for the toilet, including running hot and cold



Interior of the Coach

water. Sleeping quarters are said to be of unusually generous proportions. The linen service provides for six complete changes of all berths. The driver's compartment is well arranged, with extra seat for the relief driver and porter. A smoking lounge with four comfortable seats is provided in the rear.



Has Sleeping Accommodations for 18 People

NEW AND IMPROVED EQUIPMENT

Gasoline Locomotives

The locomotive division of the Cincinnati Car Corporation, Cincinnati, Ohio, announces its new 1200 series gasoline powered, gear driven, industrial locomotives that embody numerous improvements in design and construction to bring about both greater simplicity and durability, as well as better performance. The basic idea in all the different models of this series is performance, or the amount of work done in a given time, rather than a locomotive weighing so many tons. Four good starting and traveling speeds, both forward and backward, are provided, so that marked flexibility in speed and performance is possible. A large ratio of engine horsepower per ton of locomotive is provided in the heavy, slow-speed engine used in the different models, so that a very liberal draw-bar-pull is available in all the different speeds, and at speeds that permit of loads being



Cincinnati Industrial Locomotive

hailed at a good rate. The engines are provided with oil purifier, gasoline strainer, and temperature gauge, with gasoline gauge, oil gauge, ammeter, and the different switches for control of ignition, etc., and a spray-pump primer is provided to assist in starting in cold weather. Large water capacity is provided in an over-size radiator.

The clutch connecting the engine and transmission embodies advantages of both the dry and oil clutches and also the speed changes are easily, quickly and positively made through shifting clutches instead of shifting clash-gears.

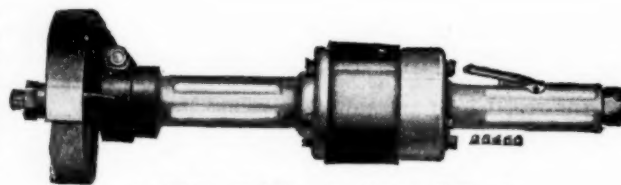
An electrically welded channel steel sub-frame carries the complete power plant, transmission and all operating parts as a unit assembly, which is rubber insulated from the main frame to cushion it against shocks and jars in service. The drive wheels are located inside the main frame, the amidship type of cab is used and the operator handles all levers and controls with his right hand instead of his left hand, and the clutch with his left foot, both going forward and backward. Effective hand brakes are provided, either with or with-

out air brakes. The different models in this series are built in a variety of sizes and track gauges, and adapted for handling either industrial cars or railroad cars.

Multi-Vane Grinders

The Ingersoll-Rand Company, New York, has developed a new portable pneumatic machine known as the Multi-Vane grinder, using a multi-vane rotor that combines the lugging power of a piston machine with the smoothness of a turbine, and designed to meet demand for lighter smoother-running grinders. The machines are fitted with speed governors which give power where it is wanted and yet keep the grinding wheel from operating at dangerous speeds. The speed can be adjusted up to 6300 r. p. m., while standard machines are set at 4200 r. p. m., as the best speed for 6-inch vitrified and 8-inch elastic bonded wheels.

A rotor with four power vanes is used, made of steel, hardened and ground to reduce wear, and a full-floating fit on its arbor, while the four power vanes balance the turning effort on the rotor. An exhaust deflector is used to serve as a muffler, and the exhaust can be turned to any desired direction. The wheel end bearing consists of two radial thrust ball bearings, placed to take thrust from either direction. In the handle is an oil chamber from which oil is automatically fed into the live air going to the machine every time the grinder is stopped and started. When fitted with wire brushes, the Multi-Vane grinders are also efficient cleaning machines for removing scale, rust, paint, etc., from steel surfaces. A No. 28 cup-type wire brush is furnished for cleaning flat surfaces, and a No. 81 sectional wire brush for irregular surfaces, such as gear teeth, rivet heads, etc. Either a squeeze-type straight handle or an inside trigger grip handle can be furnished.



A Light Grinder by Ingersoll-Rand

HUNTSVILLE PLANS TIRE FACTORY

Work on \$1,000,000 Unit to Start Soon—
Promoted by Local Interests

Huntsville, Ala.—A \$1,000,000 automobile tire manufacturing plant is proposed by the Alabama Tire & Rubber Co., now being organized by business and professional men of the city. It is said

American Trench Hoe Abroad

Active demand in foreign countries is reported for excavating and material handling equipment manufactured by the Universal Power Shovel Company, Detroit. The trench hoe, for instance, operating in Rheims, France, was uncrated and re-assembled by a member of the foreign staff of Sherman & Sheppard,



Operating in France

export representatives, who trained and instructed the native operators for three days. At the end of that time, the local men were excavating more than 300 cubic yards per day, an excess over the guarantee that had been made.

This trench hoe, through interchangeable booms, may be converted into power shovel, crane, clamshell, dragline and backfiller. It has a capacity of three-eighths of a yard. All units can be operated by one man.

that a site has been selected in West Huntsville and that work will begin soon on the first unit of the factory to give employment to 1000 persons. Among those interested in the new enterprise are J. E. Pierce, editor of the Huntsville Times, M. M. Hutchens, Jerry Murphy, R. E. Smith, C. R. Porter and W. L. Williams, all of Huntsville; H. W. Lantz, of Akron, Ohio; and L. J. and E. J. Peacock, of Toledo, Ohio.

CONSTRUCTION DEPARTMENT

and NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

The Daily Bulletin of the Manufacturers Record gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

Airports, Airplane Plants, Etc.

Ala., Montgomery—Mayor W. A. Gunter, reported, announced plans under way for organization of Southern Airways, an airplane manufacturing and transport corporation, involving perhaps \$3,000,000.

Fla., Miami—Miami Aircraft Corp., capital \$500,000, incorporated; Joseph M. Smoot, 4736 N. Bay Rd.; plan \$250,000 plant; ordered machinery for temporary plant at Hialeah, to produce 4 planes at a time.

Ga., Atlanta—Southern Air Transport, Inc., Tom Hardin, V.-Pres., Fort Worth, Tex., acquired Douglas B. Davis Flying Service of Atlanta; install complete shop, flying school, training planes and auxiliary ships at Candler field; Doug Davis continue as manager.

Ga., Hazelhurst — G. K. Glidden, U. S. Civil Engr., Aviation Dept., announced award of contract to Coffee Construction Co., Eastman, for constructing landing field at Roper, south of here, to serve mail planes on Macon-Tampa route.

La., Natchitoches—City plans voting \$35,000 bonds for airport; plans call for 100-acre A-1 field; erect hangar, 80x100 ft. 4-25

La., New Orleans—Standard Dredging Co., reported, has contract for preliminary work on airport; approx. \$900,000. 4-18

Md., Baltimore—Baltimore Air Terminals, Inc., Calvert Bldg., incorporated; William R. Crawford, Jr.; John J. Redfield.

Md., Cumberland—Harold Krimm announced purchase of 75-acre farm on McMullen Blvd. at Pinto for municipal airport; erect hangars, administration building, etc.; expend approx. \$30,000; let contract in few days for draining. 4-11

Md., Hagerstown—Kreider-Reisner Aircraft Co., Inc., let contract to Aaron Reeher, 7 Magnolia Ave., for \$60,000 monitor type building; 120x262 ft., center portion, 60 ft. wide, with 30-ft. bays, sides and monitor of continuous steel sash, includes 2-story office building. 4-11

Okla., Waynoka — Trans-Continental Air Transport Co., C. M. Keys, 60 Broadway, New York, let contract to E. W. Sproul Construction Co., 310 S. Michigan Blvd., Chicago, Ill., for hangar; to Robert E. McKee, 1916 Texas St., El Paso, Tex., for station; 2-story, including dining room, kitchen, offices, etc.; Love-Sultan Inc., 6625 Delmar Blvd., St. Louis, Mo., prepared plans.

Tex., Dallas—Texas Air Transport, Inc., Tom Hardin, Gen. Mgr., Fort Worth Natl. Bk. Bldg., Fort Worth, immediately move air mail operations and aircraft repair department to Love Field from Fort Worth.

Tex., Dallas—Lone Star Aircraft Corp., capital \$100,000, being organized with James E. Branch, Pres.; manufacture 5-place commercial transport plane, designed by Willard Mohlar, who will be tentatively Gen. Mgr.; establish flying school.

Tex., Shamrock—A. N. Holmes, Chrmn. of Aviation Committee of Chamber of Commerce, announced purchase of 160-acre tract, adjoining Walker-Martin Addition, for landing field.

Bridges, Culverts and Viaducts

Proposed Construction

Arkansas—See Roads, Streets, Paving.

Arkansas—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, receives bids May 13 for 126-ft. rein. conc. deck girder bridge and 523 lin. ft. earth embankment approaches, over Kansas City, Southern R. R. tracks, on Mena-Hatfield road, State Highway No. 71 Polk County, 3,075 cu. yd. excavation, 41,400 lb. rein. steel.

Arkansas—State Highway Comm. receives bids for 14 bridges. See Roads, Streets, Paving.

Fla., Jacksonville—See Miscellaneous Construction.

Fla., Live Oak—War Dept., Washington, D. C., approved plans State Road Dept., Tallahassee, for bridge across Suwannee River north of Live Oak.

Kentucky—War Dept., Washington, D. C., approved plans State Highway Dept., Frankfort, for 2 bridges; across Tennessee River, about 1.4 upstream from mouth of Clarke River; across Cumberland River, Smithland.

Louisiana—Louisiana Highway Comm. receives bids for 8 bridges. See Roads, Streets, Paving.

La., Jeanerette—U. S. Dept. of Agriculture, Washington, D. C., receives bids June 4 for construction struct., steel swing bridge with timber deck, over Bayou Teche, at Iberia Livestock Experiment Station, between Jeanerette and New Iberia; includes 210-ft. trestle approaches; plans from U. S. Bureau of Public Roads, Montgomery, Ala., or W. R. Dodson, Supt., Iberia Livestock Experiment Station, Jeanerette.

Md., Annapolis—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, receives bids May 14 for triple span steel girder bridge on conc. piers and abutments, total length 66 ft. between backwalls, under tracks of W. B. & A. Electric R. R., on road from Glen Burnie to Dorsey near Glen Burnie; L. H. Steuart, Sec.

Miss., Aberdeen—Monroe County Bd. of Supvs. plans letting contract in June for \$75,000 conc. bridge south of present iron bridge across Tombigbee River, Aberdeen.

Miss., Aberdeen—See Roads, Streets, Paving.

N. C., Charlotte—City, Marion Redd, Mayor, considering underpass between tracks of Columbia Div. of Southern Ry.

N. C., Elizabeth City—State Highway Comm., Raleigh, considering bridge across Pasquotank River, at Elizabeth St., to Camden County, 80 or 100-ft. bascule draw, cost \$250,000 to \$300,000; City, J. B. Flora, to open and pave street from bridge to Poin-dexter St.

N. C., Hobucken—U. S. Engineer Office, W. E. Harris, Capt., Corps of Engrs., Military Asst., Norfolk, Va., received low bid from Salmons-Clement Co., 9 State St., Charleston, S. C., \$60,965, for highway bridge with steel swing draw span, across land cut of Pamlico River-Neuse River section of Inland Waterways, from Norfolk, Va. to Beaufort Inlet, west of Hobucken. 4-4

Tennessee—Dept. of Highways and Public Works receives bids for 24 bridges. See Roads, Streets, Paving.

Tex., Amarillo—Chicago, Rock Island & Pacific Ry Co., W. H. Peterson, Ch. Engr., Chicago, Ill., plans \$1,500,000 bridge across Canadian River, on Amarillo-Liberal, Kansas line.

Tex., Anson—See Roads, Streets, Paving.

Tex., Channing—State Highway Comm., R. S. Sterling, Chmn., Austin, appropriated funds for bridge and earth approaches across Punta Du Aqua, on Highway No. 56, Hartley County; estimated cost \$10,350; G. G. Wisoline, Bridge Engr.

Tex., Cisco—State Highway Dept., R. S. Sterling, Chmn. Austin, plans to pass over Texas and Pacific R. R. west of Cisco, Eastland County, at Harrell's Crossing, on Bankhead; J. W. Puckett, Res. Highway Engr., Stamford, in charge of plans; J. F. Snyder, County Highway Engr., in charge of work.

Tex., Fort Worth—City, O. E. Carr, Mgr., plans underpasses at Tennessee, Main, Jennings and Rio Grande Sts., 13 to 14-ft. clearance, 8-ft. sidewalks, 20 to 22-ft. roadway down center; underpass at Henderson St., 46-ft. roadway down center, two 12-ft. outside roadways; overpass at Summit and Ballinger Sts., 40-ft. roadways each; open Front St., Main to North St., 75-ft. roadway; cost \$1,500,000 to \$2,000,000. See Financial News Columns.

Tex., Goliad—War Dept., Washington, D. C., approved plans State Highway Comm., R. S. Sterling, Chmn., Austin, for bridge across San Antonio River, southeast of Goliad.

Tex., Goliad—Goliad County, J. A. White, Judge, plans graded approaches, conc. relief opening and conc. bridge across Manahilla Creek, estimated cost \$40,000; V. N. Schultz, Res. Engr.

Tex., Houston—City, Walter E. Monteth, Mayor, tentative plans for \$450,000 bridge, 2 blocks south of present McKee St. Bridge, southern approach running into McDonald St., northern approach connecting with Elysian St.; H. D. Shaw, City Engr. preparing plans.

Tex., Port Arthur—Jefferson County Commrs., Beaumont, approved contract for construction and maintenance of 260-ft. railroad and highway bridge over intracoastal canal south of Port Arthur; contract to be signed by Jefferson County, Texas and New Orleans Ry. Co., R. W. Barnes, Ch. Engr., Houston, and U. S. Government; Railroad Engr., prepare plans; cost \$224,000. 3-11

Tex., San Antonio—City, I. Ewig, Engr., received low bid from J. G. Jeffrey, 2123 Buena Vista St., \$16,377, for rein. conc. bridge over San Antonio River on Convent St. extension. 4-18

Tex., Wharton—War Dept., Washington, D. C., approved plans Cane Belt R. R. Co., for bridge across San Bernard River, southeast of Wharton.

Va., Fort Humphreys—Jarboe & Houghton, Mechanicsville, Md., low bidder, \$33,946, for railroad bridge.

Va., Portsmouth—See Miscellaneous Construction.

Va., Tappahannock—War Dept., Washington, D. C., approved plans State Highway Comm., H. G. Shirley, Commr., Richmond, for bridge across Hoskins Creek, tributary to Rappahannock River, about 1 mi. from Tappahannock, under State law.

W. Va., Williamson—Mingo County Court receives bids soon for \$50,000 steel and conc. bridge at Matewan; L. C. Linkous, Engr.

Contracts Awarded

Louisiana—Louisiana Highway Comm. let contracts for 14 bridges. See Roads, Streets, Paving.

Tenn., Knoxville—Virginia Bridge & Iron Co., Roanoke, Va., has contract for 1,300 tons struct. shapes for state highway bridge over Tennessee River. 4-25

Tenn., Winchester—Nashville Bridge Co., has contract to rebuild 2 bridges in Franklin County across Elk River, at Owl Hollow and Loughmiller crossing; construction started.

Va., Great Falls—Great Falls Bridge Co., Harry A. Seay, Pres., Woodward Bldg., Washington, D. C., awarded contract to McLean Contracting Co., Fidelity Bldg., Baltimore, Md., for \$1,250,000 bridge over Potomac River from point on Leesburg Pike, Great Falls, Fairfax County, to Montgomery County, Maryland; structure to be 2,000 ft. long, 43 ft. wide, 8-ft. downstream sidewalk, 5-ft. upstream sidewalk, 30-ft. roadway, 15 150-ft. arch spans, main central span, 300-ft. long, conc. piers and abutments faced with stone, steel plate girder arches; 2½-mi. road approach at Virginia end and ¼-mi. road approach at Maryland side; War Dept. granted permit; Meigs, Long & Beale, Engrs., 819 15th St., N. W., Washington.

Canning and Packing Plants

Mo., Cape Girardeau—L. Maull Co., 219 N. Market St., St. Louis, establish canning plant.

Tex., Cuero—Chamber of Commerce, reported, interested in establishing canning plant.

Clayworking Plants

Ala., Needham—Choctaw Clay Corp., R. J. Wilkinson, Pres., 608 Pere Marquette Bldg., New Orleans, La., construct \$500,000 plant for preparing oxidized clay and Fuller's earth for market, and brick plant for making insulated brick; plans and specifications are being drawn for buildings and machinery; L. M. Dalgarn, Contr. and Engr., 303 Louisiana Bldg., New Orleans; shipment of clay and Fullers earth will begin within 60 days.

Ga., Chatsworth—Chatsworth Clay Manufacturing Co., capital \$30,000, incorporated; T. W. Brooks, R. E. Chambers.

Miss., Louisville—Corinth Brick Co., Louisville, acquired Louisville Brick Co.; will operate under name of Corinth-Louisville Brick Co.

W. Va., Charleston—Elkland Fire Brick Co., Bk. of Commerce Bldg., increased capital, \$150,000 to \$300,000.

W. Va., Martinsburg—Martinsburg Brick and Tile Co., Thomas E. Lewis, reported, construct brick and tile manufacturing plant; 12 kilns; to produce 50,000 brick or 200,000 tile daily.

W. Va., Newell—H. K. Ferguson Co., Hanna Bldg., Cleveland, O., contractors for \$1,500,000 plant of Homer-Laughlin China Co., let contract to United Erecting Co., 6702 Park Ave., Cleveland, O., for approx. 100,000 sq. ft. of steel sash; will soon let contract for 23,000 sq. yds. of wood block flooring; Federal Lumber Co., Arcade Bldg.; Harvard Lumber Co., 6000 Harvard St., and Nicola, Stone & Myers Co., Hanna Bldg., all Cleveland, are furnishing 1,000,000 ft. of lumber. 4-18

Coal Mines and Coke Ovens

Ky., Providence—Empire Six Coal Co., incorporated; Thomas G. Rice, J. L. Herron.

Va., Bristol—Clinch River Coal Co., Inc., chartered; Louis B. Sless, New York.

W. Va., Charleston—Harlow Coal Mining Co., capital \$25,000, incorporated; O. M. Harlow, K. M. Stallard, Seacool.

Concrete and Cement Plants

D. C., Washington—International Cement Corp., 342 Madison Ave., New York, constructing large rein. conc. cement warehouse, with complete packing plant, 34th St., K. St. and Potomac River; capacity of 60,000 bbl., consist of 8 conc. silos, each 80 ft. high, elevating and conveying equipment.

Cotton Compresses and Gins

La., Lafayette—Lafayette Compress & Warehouse Co., Inc., capital \$50,000, incorporated; C. J. Pope, Bunkie; constructing compress. 5-2

Miss., Water Valley—C. L. Hervey constructs cotton gin.

Okla., Hinton—Farmers Co-Operative Gin Co., capital \$25,000, incorporated; Wm. Mencke, Leekeba; G. C. Hollis, Hinton.

Tex., Cleveland—Cleveland Gin Co., capital \$15,000, incorporated; W. E. Matthews; construct 5 stand gin.

Tex., El Paso—El Paso Compress and Fumigation Co., 12th & Tornillo Sts., operating in El Paso, Fabens, Big Springs, etc., reported, merged with Union Compress and Warehouse Co., Memphis, Tenn., through transfer of stock.

Tex., Houston—Houston Compress Co., J. V. Scott, V. P. and Treas., reported, leased Clinton plant of Shippers Compress Co., located on 17 acre site on north side of Houston Ship Channel.

Tex., Houston—Eugene Atkinson, Pres., Atkinson & Co., 823 Perdido, New Orleans, La., acquired 40 acres outside city limits, from Roderick Montgomery, 1205 Esperson Bldg., Houston, as site for compress and storage warehouse. 5-2

Tex., Mt. Pleasant—Ulman Brown, C. A. Allard construct five 80-saw stand cotton gin; cost \$22,000.

Drainage, Dredging and Irrigation

Va., Norfolk—U. S. Engr. Office has low bid from Central Dredging Co., 307 N. Michigan Ave., Chicago, Ill., for dredging approx. 7,000,000 cu. yd. sand and silt from Norfolk Harbor, to widen channel to width of 750 ft., at \$1,185,000. 4-11

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Birmingham—Alabama Power Co., Thomas W. Martin, Pres., announced authorization has been given for 45 projects in 32 counties in Alabama for 295 miles rural lines.

Ala., Sheffield—King Whiteway Co., Sheffield, and Alabama Power Co., Birmingham, installing white way system.

Ark., Mammoth Springs—Arkansas-Missouri Power Co., Blytheville, granted 20 yr. light and power franchise; construct white way on Main St.

Fla., Miami Beach—See Roads, Streets, Paving.

Mo., Louisiana—Missouri Edison Co. of Louisiana recently reported merged with East Missouri Power and Light Co., Troy, plans extensive improvements to both properties, including interconnecting at 2 points. 4-11

La., Plaquemine—Baton Rouge Electric Co., Baton Rouge, securing right of way for power line through Rosedale.

Md., Easton—Easton Utilities Comm., John S. McDaniel, Pres., receives bids May 27 for Diesel engine generating unit. See Want Section—Bids Asked.

Md., Easton—Easton Utility Comm., J. S. McDaniel, Sec., will take bids about Aug. 1 on genl. cont. for \$30,000 light plant; W. Krumline, Engr.

Miss., Escatawpa—Mississippi Power Co., Gulfport, extend power line; Dixie Construction Co., Birmingham, Ala., Contr.

Missouri—Union Electric Light and Power Co., Louis H. Eagan, Pres., 12th and Locust Sts., St. Louis, plans \$75,000,000 construction program in next four years; in addition to Osage hydro-electric project.

Okla., Stillwater—C. D. Bush, Weleetka, reported, low bidder at \$24,300 for power plant addition.

Okla., Stroud—City let contract for ornamental lighting system material to General Electric Supply Corp., Oklahoma City, for standards and cables; Electric Appliance Co., Inc., 330 W. First St., Oklahoma City, Westinghouse distributors, transformers and station equipment; city water and light department is installing system.

Texas—Central Power and Light Co., Frost Bldg., San Antonio, reported, extend Victoria-Port Lavaca transmission line from Bloomington to Seadrift via Long Mott and Green Lake and from Seadrift to Tivoli and Austwell, 38 miles; install distributing systems in each community.

Tex., Dallas—Dallas Power and Light Co., Griffin and Rives St., expend \$200,000 for addition to generating station; increase generating capacity to 82,500 kw.; construct conc. smoke stack; enlarge spray pond to capacity of 120,000 gal. per minute; install pumps and auxiliary equipment.

Tex., Bronte—West Texas Utilities Co., Abilene, plans constructing high line from substation at Miles via Tennyson, 33,000 volt.

Tex., Nacogdoches—Texas-Louisiana Power Co., Fort Worth Club Bldg., Fort Worth, granted 50-yr. franchise by county commrs. court for high power lines across Nacogdoches county.

Tex., Temple—Chamber of Commerce, reported, interested in extension to white way.

Va., Danville—Peoples Light and Power Co., E. C. Deal, Pres., 27 William St., New York, negotiating for light and gas plant; city votes July 13 on granting of franchise.

Va., Dillwyn—Virginia Public Service Co., Charlottesville, advises none of work in connection with installation of generating stations and construction of distribution lines in Dillwyn, Brems, Fork Union and Columbia will be let to contract; surveys in progress and lines are being constructed at this time. 4-4

Va., Tazewell—Appalachian Electric Power Co., Bluefield, W. Va., reported, acquired Tazewell Light & Power Co.

W. Va., Charleston—Kanawha Valley Electric Co., 156½ Summers St., incorporated; W. R. Pabst, M. Evelyn Pabst, 146 Liberty St., New York.

Flour, Feed and Meal Mills

N. C., Burlington—Dixie Flour and Feed Co., capital \$100,000, incorporated; J. L. Kernodie, O. S. Chandler.

Tex., Floydada—Farmers Grain Co. incorporated; W. N. Jones, W. C. Cates.

Tex., Fort Worth—Universal Mills, Inc., Rock Island Yards, construct \$130,000 flour mill and grain elevator on Kings Highway in Riverside; main building, 7 story and basement, 43x192 ft.; elevator containing 6 circular bins, will be 160 ft. high and 80x46 ft.; rein. conc. and steel. 2-28

Tex., Hart—Farmers Grain Co., capital \$35,000, incorporated; C. E. Duke, T. R. Davis.

Gas and Oil Enterprises

Alabama—Alabama Public Service Comm., Montgomery, approved petition of Alabama Power Co., Birmingham, to sell gas properties in Montgomery, Tuscaloosa, Decatur, Selma, Anniston, Blue Mountain and Oxford to Alabama Utilities Co., L. J. Tyner, 1621 Cleveland Ave., Birmingham. 4-18

Ala., Birmingham—Southern Natural Gas Corp., First National Bank Bldg., reported, entered into contract with Ford, Bacon & Davis, Inc., 39 Broadway, New York, for construction of natural gas pipe line extending from Monroe and Richland gas fields of Louisiana through Birmingham to Atlanta, Ga. 3-7

Arkansas—Southwestern Gas & Electric Co., Marshall St., Shreveport, La., H. T. Asbury, Div. Mgr., plans enlarging and building distribution systems, transformers stations, etc. in Northwest Arkansas; rehabilitate large section distribution system at Fayetteville including 2 line feeders; construct distribution system in Centerton and Hiwassee, near Bentonville; rebuild distribution system at Rogers and reconstruct street lighting equipment and lines; has under construction transmission lines between Berryville and Harrison; making survey for construction 33,000 volt transmission line between Fayetteville and Rogers.

Ark., DeQueen—Arkansas Natural Gas Corp., El Dorado, reported, completed survey for gas line from Emmett to Okay cement plant; line will serve Washington, Saratoga, Okay and possibly Columbus; company also reported to have franchise in Mineral Springs, Nashville, Ashdown, DeQueen and Horatio.

La., Dalcour—Manning Oil Corp., capital \$100,000, incorporated; John R. Perez, 443 Canal Bank Bldg., New Orleans.

La., Lake Charles—McClain Oil Inc., capital \$60,000, chartered; Harry T. McClain, Weber Bldg.

La., New Orleans—Coast Oil Co., Inc., capital \$50,000, incorporated; Charles T. Madison, 849 Baronne St.

La., West Monroe—J. F. Heard Gas & Oil Co., Inc., capital \$15,000, chartered; J. Norman Coon, Ouachita Bk. Bldg.

Miss., Hattiesburg—Mississippi Service Co., 200 Front St., acquired gas franchise.

Missouri—Mississippi River Fuel Corp., 506 N. Fourth St., St. Louis, construct compressor station at Glendale, Lincoln County; West Point, White County, Biggers, Randolph County, and Fredericktown in connection with 450-mi. pipe line Louisiana to Missouri. 4-11

Mo., Joplin—Joplin Gas Co., construct 5 distribution plants, construction by company. 5-2

Mo., Kansas City—Home Gas Co. incorporated; Carl L. Vance, 4926 Park St.

Mo., St. Louis—Laclede Gas Light Co., Natural Bridge and Hamilton Aves., reported, construct steel gas holder, capacity 10,000,000 cu. ft.; work to begin at once; also build pumping station and boilers; cost \$500,000; Bartlett Hayward Co., Baltimore, Md., erect gas holder.

N. C., Greensboro—Green Lake Improvement Co., Detroit, Mich., reported, acquired properties of Carolina Suburban Gas Co., 315 S. Green St.

Okla., Mooreland—United Gas Service Co., Bartlesville, granted 20-yr. gas franchise, subject to approval by people.

Okla., Tulsa—Western Gasoline Corp., capital \$250,000, incorporated; H. E. Felt, 241 W. 16th St.

Okla., Woodward—City granted gas franchise to United Gas Service Co., Bartlesville.

S. C., Columbia—Standard Oil Co. of New Jersey, Charleston Branch, W. R. Goodwin, Dist. Mgr., advises plans are to build bulk distributory with day labor under supervision company's engineering department at Elizabeth, N. J.; work will probably start in about 30 days. 3-28

Tenn., Chattanooga—Standard Oil Co., of Louisiana, Baton Rouge, La., acquired controlling stock in Southeastern Oil Co., 1800 Central Ave.

Tex., Brownwood—Argus Oil Co., capital \$25,000, incorporated; Charles F. Newson, Will M. Mayes.

Tex., Corpus Christi—Gulf Coast Pipe Line Co., Wm. F. Morgan, Pres., Refugio, reported, construct 32 mile pipe line from Refugio oil fields to port of Corpus Christi; will have carrying capacity of 10,000 bbls. daily; erect 2 receiving tanks of 80,000 bbl. and 55,000 bbl. capacity each.

Tex., Fort Worth—Gaither Oil Co. increased capital, \$30,000 to \$60,000.

Tex., Houston—Balcones Oil Corp., capital \$32,000, incorporated; J. B. Spiller, Medical Arts Bldg.

Tex., Houston—Tidal Refining Co., Tulsa, Okla., purchased site suitable for refinery, plans some work on it in 1930. 5-2

Tex., Linden—Arkansas Natural Gas Corp., El Dorado, reported, has natural gas franchise.

Tex., Mineral Wells—C. & B. Oil Co., incorporated; G. C. Bachman.

Tex., Killean—Lone Star Gas Co., 1915 Wood St., Dallas, reported, construct gas line from Brownwood field; supply Lampasas, Killean and Copperas Cove with natural gas.

Tex., San Antonio—Pearson Oil Co., capital \$15,000, incorporated; C. H. Kearney, Frost Natl. Bk. Bldg.

Tex., San Antonio—Magnolia Gas Co., Magnolia Bldg., Dallas, reported, construct 60 mile 20-in. and 30 mile 18-in. gas line; increase natural gas supply by 30,000,000 cu. ft. daily; cost \$1,000,000.

Tex., Skellytown—Skelly Oil Co., Skelly Bldg., Tulsa, Okla., reported, construct sixth unit of gasoline plant, 5 miles west of Pampa; residue gas, reported, to be sold to Godfrey L. Cabot Co., for carbon black plant.

Tex., Welmar—Southwest Gas Co., Keytone Bldg., Houston, applying for gas franchise; will also install gas system at Schulenberg, LaGrange, Columbus and Eagle Lake.

Virginia—Atlantic Gas Co., Bullitt Bldg., Philadelphia, Pa., reported, erect central plant to supply Pulaski, Dublin and Radford; have applied for franchises.

W. Va., Charleston—Ohio River Gas Co. incorporated; R. J. Skullman, 1607 Quarrier St.

W. Va., Montgomery—E. R. Diggs, Inc., 46 Cedar St., New York, reported, negotiating for Montgomery Gas Co.

Ice and Cold-Storage Plants

Ga., Atlanta—Nashville, Chattanooga & St. Louis Ry., J. B. Hill, Pres., Nashville, Tenn., reported, plans 17-story cold storage and freight warehouse on site of old Union depot; McDonald & Co., Engrs. and Archts.

La., Alexandria—Refrigerated Products, Inc., Edwin Harding, Pres., 10th and Murray St., let contract to J. V. Pellerin, for ice, ice cream and cold storage plant; 65x102

ft., brick, conc., conc. and tile floors, fireproof roof; building and equipment to cost \$80,000; refrigerated tonnage, 25, 300 gal. ice cream daily; construction started; Geo. E. Wells, Inc., Archt., 100 W. Monroe St., Chicago, Ill. 4-25

La., Gonzales—Gonzales Ice Co., Inc., capital \$20,000, chartered; Alexander Jeffrey.

Mo., Jefferson City—Moerschel Products Co. converting ice plant from steam to electric driven system; let contract to Frick Ice Machine Co., Waynesboro, Pa., for refrigerating machinery; motors, pumps, etc., from R. H. Tait & Sons, 813 Hampstead St., St. Louis (Mo.), representatives of Frick Co.; building changes, construction and cork insulation being handled and supervised by L. Mundet & Son, Inc., 461 Elght Ave., New York. 4-25

Tex., Mission—Klear Kold Ice Co., capital \$25,000, incorporated; T. W. Doster, Guy Johnson.

Iron and Steel Plants

Ala., Birmingham—Ingalls Iron Works Co., R. I. Ingalls, Pres., reported, started work in addition to main plant to cost over \$100,000; install new equipment and machinery throughout; work by company's forces.

Ala., Gadsden—Gulf States Steel Co., W. H. Coverdale, Pres., Birmingham, and 52 Wall St., New York, let contract to United Engineering & Foundry Co., Farmers Bldg., Pittsburgh, Pa., for 40-in. blooming mill at steel mills; reported, plans awarding contract for plate and sheet mill by May 15, costing \$4,000,000.

Tenn., Knoxville—Knoxville Iron Co., expended \$10,000 for repairs to plant.

Tex., Austin—Tips Engine Works-Heierman Industries, Inc., Walter E. Heierman, Pres., 300 Crockett St., install \$20,000 steel fabricating plant.

W. Va., Wierton—Wierton Steel Co., reported, let contract to Hughes-Foulkrod Co., 421 Seventh Ave., Pittsburgh, Pa., for addition to steel mill; brick, steel. 2-24

Land Development

Fla., Miami—Starling Corp. incorporated; J. E. Yonge, Exchange Bldg.

Fla., Miami—Indian Creek Golf Club acquired northern island of Miami Shores Islands in Biscayne Bay; develop for golf course and estates; expend \$500,000.

Fla., Miami Beach—City votes June 4 on \$300,000 bonds for purchase of Flamingo Park. 5-2

Fla., Sanford—Washington Harney Land Co. incorporated; J. C. Bills, Jr., Henry Ansonen.

La., Abbeville—Camille Farm, Inc., capital \$50,000, incorporated; L. O. Broussard.

La., Arabi—Andrew-Jackson Sub Division, Inc., capital \$20,000, chartered; Albert Laburre, Mrs. John Sarragnacq.

La., Lake Charles—Lormand Farm Co., Inc., chartered; John Lormand, Welsh; E. H. Lambert, 1009 Seventh St., Lake Charles.

La., Lake Charles—Sonier Farm Co., Inc., chartered; Henry Sonier, Elton, R. F. D.; E. H. Lambert, 1009 Seventh St., Lake Charles.

La., New Orleans—Viola Farms, Inc., capital \$50,000, incorporated; Charles A. Schexnayder, 227 Third St.

La., New Orleans—Marita Fruit Grove Co., Inc., capital \$20,000, chartered; Wm. A. Walsingham, 1404 Canal Bank Bldg.

La., New Orleans—Lee Eddy Realty, Inc., capital \$25,000, incorporated; R. Lee Eddy, 6405 Catina St.

La., New Orleans—Lemark Lands, Inc., capital \$14,000, incorporated; John H. Holmes, 413 Canal Bank Bldg.

Md., Baltimore—Stag Realty Corp., First Natl. Bk. Bldg., incorporated; Charles H. Adler, Ralph Walter.

Md., Hyattsville—Northwest Cemetery Co., Inc., chartered; Brevard D. Strohecker, John F. Lillard.

Mo., Leasburg—Onondaga Development Co., E. Bradford, Mgr., develop Onondaga Cave, 1/4 mi. from Meramec River; construct swimming pool, 200x150 ft.; hotel; cottages arranged on tourist camp plan; garages; subdivide acreage around cave for summer cottage sites; install small turbine water wheel fed from water out of cave; build lumber yard; will do own contracting work such as building roads. See Want Section—Machinery and Supplies. 4-18

Mo., St. Louis—Florentine Realty Co., capital \$75,000, incorporated; C. Earl Giralddin, 7316 Pershing Ave.

Mo., St. Louis—Lake Forest Development Assn. develop 57 acres Clayton and Hanley Rds.

S. C., Columbia—Heath-Wood Realty Co., incorporated; M. C. Heath, Loan & Exchange Bldg.

S. C., Edgefield—The Kendall Co., Addison Mill Division, developing village extension of 65 houses, plans and supervision by E. S. Draper, Landscape Archt. and Engr., Charlotte, N. C., work includes grading, walls, conc. curb and gutter, storm drainage, asphalt street surfacing, bridge, park improvements; Caroline Contracting Co., Gen. Contrs., Columbia.

Tex., Fort Worth—Bluebonnet Hills Development Co., developing Bluebonnet Hills, subdivision; pave streets, install water and sewers, gas and electric light extensions; expend \$400,000.

Tex., Houston—Westlawn Co., O. F. Holcomb, M. C. Parker, develop Westlawn Terrace subdivision Richmond Rd., Shepherd Drive.

Tex., Houston—S. E. McHard, Bankers Mortgage Bldg., develop Southview Addition; install water, lights.

Tex., Houston—W. P. Britton acquired 44 acre tract.

Tex., Houston—George Wright develop subdivision in East Goose Creek; shell streets and sidewalk; install water, sewer.

Tex., Lufkin—Glenn Undertaking Co. acquired site for development of cemetery.

Tex., Rio Hondo—McLeod-Hood Development Co. developing 1800 acre citrus orchard.

Tex., Uvalde—Giant Industrial Engineering and Farm Management Industries, W. A. Thomson, offices San Antonio, develop 1000 acres near Camp Wood for pecans; divide into 1, 5 and 10 acre tract, each with irrigation system.

Va., Fredericksburg—Blue Wing Realty Corp., capital \$100,000, incorporated; George Boling Lee, New York.

Va., Norfolk—Brandon Construction and Realty Co., capital \$25,000, incorporated; E. E. Richardson, Arcade Bldg.

W. Va., Charleston—Fort Hill Realty Co. increased capital, \$125,000 to \$360,000.

W. Va., Martinsburg—Wesley Adams, Winchester Ave., acquired and will develop Back Creek Swimming Beach on Fuss Lawn; construct double driveway, dance pavillion, etc.

Lumber Enterprises

Ala., Montgomery—American Wolmanized Lumber Co., H. Edward Wolff, Pres., Elizabeth, N. J. considering establishing lumber plant to employ about 100.

Ark., Gravette—Dyke Bros. Lumber Co. acquired site; establish lumber yard; C. A. Swarens, Dist. Agt., Sulphur Springs.

Fla., Brooksville—Brooksville Hardwood Mfg. Co. incorporated; L. C. Edwards, W. M. Burkett.

Miss., Logtown—H. Weston Lumber Co., reported acquired 10,000 acres long leaf pine, Pearl River County; resume operations at sawmill here.

Ky., Winchester—Hazard Lumber & Supply Co., Hazard, acquired Soobee Lumber Co.

La., Harrisonburg—McKeithen & Biggs, Grayson, advise R. J. Cruse, Columbia, acquired mill formerly operated by Brooks-Wright Lumber Co., Sicily Island; recently noted acquired by McKeithen & Biggs. 5-2

Tex., Beaumont—Hartburg Lumber Co., E. A. Burrus, Pres., Hartburg, erect band saw plant, 11th St. Rd.; install planing mill and dry kiln equipment with daily capacity of 40,000 ft.

Tex., Stratford—Stratford Lumber Co., capital \$20,000, incorporated; W. F. Nelson, E. S. McAdams.

Metal-Working Plants

Md., Baltimore—Independent Can Co., Howard & Ostend Sts., let contract in few days for plant; 1-story, brick, 8000 sq. ft. floor space; Clarke Construction Co., American Tr. Bldg., prepared plans. 10-11-28

Mining

Ark., Van Buren—New Chicago Mines Corp., E. H. Wolff, Pres., 602 N. Pearl St., Joplin, Mo., acquired Lanyon Zinc Co. smelter; install sintering plant.

Mo., St. Louis—Marquette Iron & Steel Co., Inc., 705 Olive St., offering 10,000 shares capital stock; company engaged in mining iron ores, in Howell, Butler and Wayne Counties; treat ores for obtaining concentrate suitable for smelting; acquired 2 blast fur-

naces for manufacturing pig iron spiegeleisen and ferro-manganese; owns and controls leases on body of manganese ore on White River, Stone County, Ark.; proceeds to provide additional working capital, construction and machinery.

N. C., Asheville—Tuckasegee Mineral Development Co., incorporated; J. A. Martin, Batesville, Ark.; J. C. Cheeseborough, Jackson Bldg., Asheville.

Tex., Alpine—Marble Mountain Co., 424 S. Broadway, Los Angeles, Calif., erecting machinery to develop deposits on Marble Mountain, near here, recently leased on royalty basis; lease covers 480 acres, containing marble in all colors.

Tex., Burnet—Pink Granite Co., Thomas Darragh, Pres., expending \$30,000; install polishing plant, electrically operated, 150 ft. daily capacity; erecting sheds, 195x50 ft., all metal.

Va., Woodstock—Hy-Grade Manganese Production & Sales Corp., James W. Gerard, 57 William St., New York, miners and grinders of manganese ores, reported, plan modern grinding plant and now expending \$150,000 to \$200,000 for new plant and mine equipment to have daily output of 100 tons; J. S. Grasty, Geological Engr., Charlottesville, Va., made survey of Mineral Ridge deposits 11 mi. north of here, finding large tonnage of positive ore; Chas. W. Massie, Plant Mgr.

Miscellaneous Construction

Fla., Jacksonville—City opens bids May 27 for Hogan's Creek Improvement project, including bulkhead, changing channel, excavation, spillway, automatic tide gates, pumping plant, storm drains, bridges, wire fence and dredging. The following contractors are estimating: Atlantic Foundation Co., Dyal-Upchurch Bldg.; H. S. Baird, Atlantic Natl. Ek. Bldg.; W. J. Bryson Paving Co., 14th and Myrtle Ave.; W. T. Hadlow, 32 W. Forsyth St.; Hearn Construction Co., Hanover St.; C. E. Hillier, 217 W. Church St.; Shore Line Builders, Liggett Bldg.; Frost Construction Co., 601 Marion St.; Tampa; Lockman Construction Co., 628 30th St., West Palm Beach; J. B. McCrary Co., Citizens & Sou. Bk. Bldg., Atlanta, Ga.; H. E. Halpin, Alken, S. C.; W. E. Sheddian, City Engr.; C. V. Imeson, 509 Clark Bldg., and H. J. Klutho, 101 St. James Bldg., Const. Engr. 4-18

Fla., South Jacksonville, Jacksonville—City Council let contract to Sanitary Engineering Co., L. P. Berry, Jr., Stovall Professional Bldg., Tampa, for American Beccari type, 21-cell garbage reduction plant, manufactured by American Beccari Corp., 342 Madison Ave., New York. 5-2

La., New Orleans—Treasury Dept., Office of Supervising Archt., Washington, D. C., receives bids May 16 for wharf and approaches at U. S. new quarantine station; following contractors estimating: W. Horace Williams Co., Inc., 833 Howard Ave.; Hampton Reynolds, Maritime Bldg.; Gervais F. Favrot, Balter Bldg.; Dalgarno Construction Co., Inc., Louisiana Bldg., all New Orleans; English Construction Co., 1311 H St., N. W., Washington, D. C. 4-25

Md., Frederick—Braddock Heights Swimming Pool Corp., Edgar S. McCardell, Pres., formed to construct swimming pool, Camp Schley Ave., Braddock Heights; 150x50 ft., equipped with modern bath houses; soon award contract.

Mo., St. Louis—Chicago, Burlington & Quincy R. R. Co., A. W. Newton, Ch. Engr., Chicago, Ill., plans constructing addition to elevator and warehouse, recently acquired from Marshall Hall Grain Corp.; present capacity 1,400,000 bu.; addition to provide for 1,000,000 bu.

Tenn., Memphis—U. S. Engr. Office, McCaill Bldg., receives bids May 22 for construction of about 2,836,000 cu. yd. earth work, at Mound City, Ill., and in Reelfoot and Lower St. Francis Levee Districts, designated by number, location, kind of work, estimated net yardage: Mound City Front, Ohio River—3, above 4R, Mound City, Ill., levee along Ohio River front, enlargement, removing rock and pavement, 19.5 ft. high, 211,000; Reelfoot Levee Dist.—6, below 37 L, enlargement, 16.0 ft. high, 150,000 cu. yd.; 7, below 39L, new levee, 20.0 ft. high, 465,000; 8A, below 51L, enlargement and new levee, 17.0 ft. high, 410,000; 8B, below 52L, new levee, 20.0 ft. high, 410,000; 8C, below 53L, riverside enlargement and new levee, 19.5 ft. high, 430,000; 8D, below 54L, new levee, 20.5 ft. high, 430,000; 8E, below 55L, new levee, 20.0 ft. high, 435,000; Lower St. Francis Levee Dist.—10, below 146R, 1 1/4 mi. south of Barnfield, Ark., riverside enlargement, 21.0 ft. high, 350,000.

Tex., San Angelo—City seeking site for \$25,000 incinerator; to be under supervision of C. E. Starkle.

Tex., Texas City—Missouri-Kansas-Texas R. R. Co., Ry. Exch. Bldg., Missouri Pacific R. R. Co., both St. Louis, Mo., and Gulf Colorado & Santa Fe, Chicago, Ill., owners of Texas City Terminal Co., plan expending \$250,000 for additional storage bins, increasing capacity of elevator, 500,000 to 1,000,000 bu.; delivery capacity being increased 10,000 to 40,000 bu. per hour; installing conveyor and erecting warehouse.

Va., Portsmouth—Portsmouth-Norfolk-Norfolk County Bridge & Tunnel Authority, Vernon A. Brooks, Chmn., contracted with J. E. Greiner & Co., Lexington Bldg., Baltimore, Md., and Parsons, Klapp, Brickerhoff & Douglas, 84 Pine St., New York, to furnish plans for structure to connect Portsmouth and Norfolk; prepare plans for bridge and tunnel.

Miscellaneous Enterprises

Ala., Gadsden—Coca Cola Bottling Co., Joseph Eros, 1010 Gurnee St., Anniston, erect \$75,000 bottling plant; 2-story and basement, rein. conc., brick, stone trim, comp. roof, steel sash and doors, conc. floors; construction in few days; Pringle & Smith, Archts., Norris Bldg., Atlanta, Ga.

Ala., Huntsville—Wesleyan National Life Insurance Co., capital \$500,000, incorporated; E. M. Lowman, P. S. Dunnivant.

Ark., Marianna—W. D. Davis, Cotton Plant, acquired plant and equipment of Marianna Bottling Works, Chestnut St.; leased Stubbfield Bldg.; establish plant; install machinery.

Ark., Marianna—W. S. Brown and L. Demarke, Arkansas City, acquired Home Steam Laundry, owned by O. C. Sutton & Co., and plant and business of Lamb Dry Cleaners, J. W. Lamb; expend \$20,000 consolidating plants and installing machinery.

D. C., Washington—H. A. Gardner, 2201 New York Ave., let contract to W. E. Mooney, 2525 Pennsylvania Ave., N. W., for \$32,697 laboratory addition, 2201 New York Ave.; 1-story, stone; G. N. Ray, Archt., 1223 Connecticut Ave.

Fla., Daytona Beach—City, E. T. Markham, Building and Electrical Inspector, install traffic lights on Temko Terrace in Ocean Dunes and other parts of city.

Fla., Newport—Singletary Investment Co., W. J. Singletary, Pres., Tallahassee, acquired Smith-Vereen land and turpentine quarters; 28,000 acres pine; involves approx. \$300,000.

Fla., Sebring—Lakeport Farms, Inc., A. L. Mathews, Gen. Mgr., P. O. Box 653, developing large tract of land and plan establishing vegetable canning plant. See Want Section—Machinery and Supplies.

Ga., Atlanta—National Food Products Corp., 120 Broadway, New York, issuing \$2,500,000 15-year collateral trust 6% convertible gold bonds, through J. A. W. Izlehart & Co., 102 St. Paul St., Baltimore, Md., and Arthur Perry & Co., 120 Broadway, New York; company incorporated in Maryland, operating principally chain grocery stores; will upon completion of acquisition incident to this financing, own capital stock of Southern Grocery Stores, Inc., Atlanta; David Pender Grocery Co., Norfolk, Va., and H. C. Bohack Co., Inc., Brooklyn, N. Y. 5-2

Ga., Macon—Blount Construction Co., capital \$25,000, incorporated; C. B. Freeman, J. E. Brady.

Ga., Milledgeville—See Raleigh, N. C.

Ky., Harlan—Lewis & Kelly Construction Co. chartered; W. W. Lewis, Owen Kelly.

Ky., Louisville—Louisville Electric Mfg. Co., 31st and Magazine St., increasing capital stock, \$155,000 to \$217,000.

Ky., Paducah—Paducah Newspapers, Inc., formed by merger of Evening Sun, Edwin J. Paxton, Publisher, and News-Democrat; contemplate erecting building.

Ky., Shelbyville—Globe Tobacco Warehouse, Inc., capital \$30,000, chartered; H. F. Walters, Melvin Sams.

La., Baton Rouge—H. N. Saurage, 333 N. 16th St., has plans in progress for packing plant, N. 16th St.; 2-story, 22x82 ft.; Louis A. Grosz, Archt., Raymond Bldg.

La., Crowley—Rice City Printing Co., capital \$15,000 incorporated; Henry P. Herbert, Curtis L. Gremillion.

La., Morgan City—Indianapolis Glass Co. plans establishing glass grinding plant.

La., New Orleans—General Industrial Alcohol Corp., formed with Walter J. Trantman, Pres., capitalization to consist of \$1,500,000 convertible 6 1/4% sinking fund debentures and an authorized issue of 285,000 no-par value shares common stock, 115,000 shares outstanding; reported, will acquire

General Industrial Alcohol Co., Inc., Marrer National Industrial Alcohol Co., Inc., New Orleans; plants of Greendale Co., Lawrenceburg, Ind., and Michigan Chemical Co., Bay City, Mich.; Molasses Distributors' Corp., which has acquired Molasses Co., New York, and certain subsidiaries, including tank cars and terminals at Boston, Brooklyn and New Orleans; issuing \$2,500,000 convertible 6 1/4% sinking fund debentures, through Bauer, Pogue, Pond & Vivian, Inc., 20 Pine St., New York.

Md., Baltimore—Norbert A. Kroeger, 2556 Hollins St., acquired buildings, 4-6 S. Calhoun St.; manufacture confectionery.

Md., Baltimore—Atlantic Southwestern Broom Co., 1300 S. Baylis St., erect \$25,000 building; 4-story, 60x94 ft.

Md., Baltimore—John R. Wald Co., Nitro, W. Va., has contract for Niagara rimming press with automatic sliding bolster for manufacturing license tags at State Penitentiary.

Md., Salisbury—Jackson & Jackson Co., William P. Jackson, installing 36 additional machines in shirt manufacturing plant, Newton St.

Mo., New Hamburg—Scott County Dairy Co., incorporated; Clement Brockmeyer, Chaffee; Wm. LeGran, Oran.

Mo., St. Louis—McGraw Electric Co., 120 N. La Salle St., Chicago, Ill., reported, acquired Bussman Mfg. Co., electric fuse and portable lamp manufacturers; involves approx. \$3,000,000; plans expanding facilities.

Mo., St. Louis—Electricians Building Co., capital \$50,000, incorporated; Louis Heininger, St. Louis; August A. Selzer, Pine Lawn.

Mo., St. Louis—J. H. Belz Provision Co., J. H. Belz, Pres., 3601 S. Broadway, let contract to W. Gruenwald Construction Co., 3403 Arsenal Ave., for alterations to cooler room; 2-story, brick; cost \$22,000; Helfensteller, Hirsch & Watsons, Archts., Chemical Bldg.

Mo., St. Louis—Rex Sign Co., capital \$20,000, incorporated; Joseph Esswein, Jr., 2303a S. 18th St.

Mo., St. Louis—Standard Surgical Supply Co., capital \$50,000, incorporated; Grant G. Forsythe, 4637 Wilcox St., St. Louis; Thomas G. Forsythe, Allen, Okla.

Mo., St. Louis—J. S. Merrell Drug Co., George R. Merrell, Pres., Fourth and Market St., merged with McKesson & Robbins, Inc., Bridgeport, Conn.

N. C., Albermarle—Mrs. Annie Hearne let contract to D. A. Holbrooks, for building; 1-story, 25x120 ft.; to be occupied by Albermarle Press; Geo. P. Palmer has contract for excavation.

N. C., Asheville—Construction—L. P. London Co., Inc., capital \$50,000, chartered; L. P. London, Jr., 77 Spruce St.

N. C., Asheville—Kinlin-Wud Chemical Industries, Inc., let contract to Cardwell Machine Co., 1901 E. Franklin St., Richmond, Va., for machinery for manufacture of chemical composition, under high heat and molded into sticks under high pressure, 1x1x6 in., used in kindling fires; plan beginning production within 30 days. 4-18

N. C., Faison—Charles F. Cates & Son, Inc., capital \$65,000, incorporated; Charles F. Cates, John Sprunt Hill, Trust Bldg., Durham; establish pickle plant; purchasing tanks with 160,000-bu. capacity.

N. C., Goldsboro—Talbot Patric, 1 Mid-duagh St., New York, and associates, acquired Goldsboro Argus, newspaper.

N. C., High Point—High Point Oil Burner Corp., capital \$100,000, incorporated; B. A. E. Taplin, George T. Stephens.

N. C., Mebane—Mebane-Royall Co., Inc., reported, formed by merger of following bedding manufacturers: Mebane Bedding Co., Mebane; Royall & Borden Mfg. Co., Goldsboro, and Cotton Belt Mfg. Co., Rocky Mount, and Richmond, Va.; main offices, Mebane, with branches at Goldsboro, Rocky Mount, Asheville and Richmond, warehouses at other strategic points of distribution; George C. Royall, Chmn. of Bd.; G. C. Royall, Jr., V-Pres.

N. C., Raleigh—North Carolina State Prison, George Ross Pou, Supt., let contract to John R. Wald Co., Nitro, W. Va., for installing auto tag making equipment; includes Niagara squaring shear, punch press, embossing press and rimming press; John R. Wald Co. enamel dipping machine; Gehrlich special auto tag conveyor oven, with electric heating units; John R. Wald Co. numeral coating machine, floor racks, lift trucks, etc.; also has contract for installing same equipment in State Prison, Milledgeville, Ga.

Okla., Oklahoma City—Turnbull-Russell Co., 225 W. Second St., has low bid from Harmon & Mattison Construction Co., Herskowitz Bldg., for office, print shop and warehouse; soon award contract; Sorey & Vahlberg, Archts., Braniff Bldg. 4-18

Okla., Ponca City—Ponca City Garment Mfg. Co., capital \$50,000, incorporated; H. L. McCracken, H. A. Maril.

Okla., Tulsa—Goodin Glass Co., George W. Goodin, Pres., 18 E. 11th St., formed by merger of O. K. Glass Co. and Oklahoma Glass Co., both Tulsa; Frank Hanska, Mgr.

S. C., Charleston—Dixie Engraving Co., 128 Bay St., Savannah, Ga., acquired Charleston Engraving Co., George F. Hoffman.

S. C., Spartanburg—Harold Hall and William La Varre acquired Spartanburg Herald and Spartanburg Journal.

Tenn., Chattanooga—N. C. Blanchard Co., N. C. Blanchard, Pres., Harriman, begin work in few days on golf shaft making plant; 36 x 125, 36 x 140 and 24 x 76 ft., frame, brick, conc. floors, metal roof.

Tenn., Chattanooga—Black Seal Roof Paint Mfg. Co. establish branch plant; C. H. Smotherman, to be in charge.

Tenn., Gatesville—Borden Co., 350 Madison Ave. New York, advises: "Do not contemplate erection of plant; just completed small receiving station." 5-2

Tenn., Isabella—Ducktown Chemical & Iron Co., W. F. LaMareaux, reported, announced immediately expend \$1,000,000 for extensions and additions to plant; erect new acid plant; roasting sintering iron plants, manufacturing iron sinter, used in making pig iron, to be expanded; new plant to be completed by Oct. 1; Chemical Construction Co., Engrs. and Contrs., Charlotte, N. C., has contract for contact acid plant.

Tenn., Lewisburg—Liberty Pencil Co., Inc., capital \$50,000, chartered; J. P. Fitzpatrick, C. F. Minturn.

Tenn., Memphis—Plough Chemical Co., 121 S. Third St., receives bids soon for \$1,000,000 chemical plant; rein. conc., faced with orna. brick and other masonry, 5-story, setback type, with central tower housing water tanks, elevator machinery, etc.; office, 220x60 ft., occupy entire front on first floor; rear portion of first floor for storage and shipping; manufacturing floors to be equipped with modern producing and packing machinery; 1 floor and portion of another to be occupied by printing and box manufacturing plant; provide rest rooms, cafeteria, auditorium, store, emergency hospital and recreational facilities; design and construction under supervision of Jackson & Moreland, Engrs., Boston, Mass., and Hanker & Cairns, Archts., 123 S. Court St., Memphis. 5-2

Tenn., Nashville—Pharmaceutical Products Co. of Memphis, capital \$1,000,000, reported being organized, promoted by J. M. Phillips, 3807 Whitland Ave.; establish \$100,000 plant on outskirts of city; open 200 drug stores in Southern states.

Tex., Austin—Austin Laundry, A. D. Bolm, let contract to C. W. Moore, 609 W. 16th St., for laundry addition, Lavanca St., between 15th and 16th St. 4-4

Tex., Dalhart—John McCarty and associates acquired Dalhart Texan Publishing Co., Inc., publishers of Dalhart Texan and Hartley County News.

Tex., Dallas—Liberty Packing Co., capital \$30,000, chartered; L. Stroud, 5617 Swiss St.

Tex., Dallas—Protectors' Mutual Life Insurance Co., incorporated; Frank C. O'Brien, Wilson Bldg.

Tex., Denison—W. J. Smith Wood Preserving Co. plans erecting \$75,000 plant.

Tex., Houston—Majestic Mutual Life Insurance Co., incorporated; W. M. Brumby, Post-Dispatch Bldg.

Tex., Houston—Star Engraving Co., 1401 Walker St., erect \$75,000 building, Buffalo Drive; 1 and 2-story, 65x85 and 80x200 ft., rein. conc., brick, hollow tile, stucco, conc. floors, steel sash, millwork trim; R. D. Steele, Archt., First Natl. Bk. Bldg.

Tex., Karnes City—August Kaiser completed plans for modern bakery.

Tex., Karnes City—Laney Creamery Co., 410 Chestnut St., San Antonio, considering establishing produce station.

Tenn., Knoxville—Silica Sand Co., capital \$75,000, incorporated; H. A. Johnson, 307 Gertrude Ave.

Tex., San Antonio—Texas Outdoor Advertising Co., Reagan Houston, Pres., 806 Houston St., acquired site, Camden and N. St. Mary's St.; plan beginning erecting building for office and factory within few weeks.

Tex., San Antonio—Gibraltar Mutual Life Insurance Co., incorporated; J. T. Sluder, Milam Bldg.

Tex., Waco—Premier Mutual Life Insurance Co., incorporated; J. F. Bailey, Amicable Bldg.

Va., Norfolk—Rea Coal & Iron Corp., capital \$50,000, incorporated; Norman Bell, 326 Botetourt St.

Va., Norfolk—Nachman Spring-Filled Corp., L. Burnstein, Pres., Box 705, let contract to Chicago, Ill., leased building, Granby St. and Norfolk & Western Ry.; installing machinery to manufacture spring units for mattresses, furniture and automobile cushions; begin operations within 3 weeks, employing 200; plan erecting \$500,000 plant, having 4 or 5 acres floor space.

Va., Richmond—Searchlight Metals Mfg. Corp., L. Burnstein, Pres., Box 705, let contract to H. L. Kulp, 12 Raines Ave., for ingot brass and copper, solder babbitt and type metals plant; 2 units, 40x130 ft. each, cinder block, conc. floors, metal roof; foundation laid; install oil burners and furnaces; Benj. Burnstein, Archt., Box 705. See Want Section—Machinery and Supplies.

Va., Richmond—Standard Paper Mfg. Co., J. F. Ryland, V.-Pres. and Gen. Mgr., soon have plans out for second unit of addition to paper plant; completing designs for foundation for paper machine to be installed in mill No. 3; John J. Saville, Inc., Electric Bldg., erecting first unit; Lee, Smith & Vandervoort, Inc., Archt. and Engr., Bldgs. Exch.

W. Va., South Charleston, Charleston—H. K. Ferguson Co., Gen. Contr., Hanna Bldg., Cleveland, Ohio, purchased three 3250-kw. rotary converters, from Allis-Chalmers Mfg. Co., Milwaukee, Wis., and Wilmington, Del.; switchboard equipment, from General Electric Co., Schenectady, N. Y., to be installed in plant being erected for Westvaco Chlorine Products Co., Inc.; now preparing site and excavating. 4-18

Motor Bus Lines and Terminals

Ala., Athens—L. C. Howerton let contract to R. A. Chambers & Sons for building; 150 x 200 ft.; to be occupied by No. 7 Bus Lines, R. A. Chambers & Sons; to be completed in about 3 weeks.

D. C., Washington—"Jitney" Cab Corp., capital \$100,000, incorporated; M. M. Williams, 12 S. St., N. E.

Md., Westminster—Nevin Bus Lines of Maryland, Inc., incorporated; Uriah G. Heltbride, Ralph B. Warehime.

Mo., St. Louis—W. J. Holbrook, 601 Boland Pl., plans erecting motor bus terminal and hotel, bet. Olive and Pine St.; 75x71 ft., 12-story.

Okla., Oklahoma City—Ward-Way Bus Co., Ward Faulkner, Pres., 527 N. Sixth St., Muskogee, announced purchase of Byrd-Vaughn bus line, Fort Smith to Oklahoma City, including part interest in union bus station; ordered 6 buses and soon start service, Muskogee to Oklahoma City.

Tenn., Memphis—Pickwick-Greyhound Lines, Inc., 364 S. Main St., let contract to E. J. Pearson Construction Co., Fidelity Bk. Bldg., for remodeling bus terminal, 86-92 N. Second St.; E. L. Harrison, Archt., 1501 Fidelity Bk. Bldg.

Va., Richmond—American Motor Transit Corp., 1918 Prairie Ave., Chicago, Ill., reported, acquired Richmond-Washington Motor Coaches, Inc.; lines to be linked with nation-wide Greyhound and Yellowway Stage system.

Motor Cars, Garages, Filling Stations

Ala., Birmingham—R. L. Craig, Brown-Marx Bldg., let contract to Moore & Woolley, 713 S. 27th St., for \$20,543 sales garage, Alley E and 22nd St.; 1-story, 90 x 100, built-up roof, brick and limestone walls, conc. and tile floors, sprinkler system, metal ceiling; private plans.

Ala., Montgomery—McIntyre Bros., care Mutual Warehouse Co., 101 E. Jefferson St., let contract to J. L. Solomon, Palmetto and Panama St., for \$50,000 garage; 2-story, brick, conc. footings; to be occupied by Gorie-Norris Auto Tire Co., 15 Bibb St.

Fla., Coral Gables, Miami—Orange State Oil Co., 368 N. 58th Terrace, leased site, Alcazar Ave. and Ponce de Leon Blvd.; immediately erect service station.

Ga., Augusta—Henry Darling Motor Co., 513 Broad St., let contract to Grahm Construction Co., Red Rock Bldg., Atlanta, for \$65,000 garage. 3-28

La., New Orleans—Gulf Refining Co. acquired site, Louisiana Ave. and S. Claiborne Ave.; erect oil and gasoline station.

La., New Orleans—Jos M. Bistes, 1829 Nisuline St., let contract to Holzer Sheet Metal Works, Inc., 317 Burgundy St., for \$10,000 garage, Lafayette, Bampart and Saratoga St.

La., Shreveport—Sparco Gasoline Co., Slatery Bldg., leased site, Creswell and Olive St.; erect filling station.

Md., Baltimore—Following have sub-contracts for ramp garage, Saratoga St., near Howard, for Hutzler Bros. Co., 212 N. Howard St.; to be occupied by Mortoramp Garages of America, Inc., 21 E. 40th St., New York; Brick, Koyné & Webber, 435 N. Front St.; sewers, P. Marrocco, 3700 Forrest Park Ave.; hardware, Hubbard & Eggleston, 120 W. Baltimore St.; plumbing, heating and ventilating, Lloyd E. Mitchell, 915 E. Monument St.; marble and tile, Jos. B. Dunn & Sons, Inc., 853 N. Howard St.; sprinkler system, Automatic Sprinkler Corp. of America, 8 South St.; steel products, David Lupton's Sons Co., 509 N. Charles St.; roofing, John O. White, 100 N. Franklinton Rd.; wiring, Abraham Kahn, 518 N. Charles St., all Baltimore; stone, James E. O'Mear, Glendon; glass, Pittsburgh Plate Glass Co., Frick Bldg., Pittsburgh, Pa.; painting, Philadelphia Paint Contracting Co., 245 S. Ninth St., Philadelphia, Pa.; Millwork, Noss Herman Sons, Inc., York, Pa.; Frainie Bros. & Haigley, Gen. Contr., 19 W. Franklin St.; Evans Sperry, Archt., Calvert Bldg. 5-2

Miss., Forest—Cook Oil Co. let contract to G. M. Martin for service station, Hillsboro and Second St.; brick, 4 pumps, hydraulic lift, auto greasing racks, wash racks, etc.

Mo., Moberly—Main Tire Co., L. H. Bierman, Pres., W. Coates St., receiving bids for \$40,000 filling station and garage, Rollins and Johnson St. 12-13-28

Mo., Kirksville—Auto Sales Co., capital \$30,000, incorporated; F. M. Stoll, Macon; Harry S. Jones, Kirksville.

Mo., Richland—Payne Motor Co., capital \$20,000, incorporated; W. C. Payne.

Mo., Salem—Pinis Chevrolet Co., capital \$20,000, incorporated; James A. Pinis.

Mo., St. Louis—Bell Tire & Supply Co., Inc., 1123-25-27 S. Broadway, capital \$10,000, chartered; Bessie Goldstein, Jacob Steinberg.

Mo., St. Louis—American Body & Auto Repair Corp., capital \$25,000, incorporated; Alois W. Strubel, 5023 Tholozen St.

Mo., St. Louis—Pierce Pipe Line Co., 1700 Locust St., let contract to Fruin-Colon Construction Co., Merchants Laclede Bldg., for \$15,000 service station; brick, 110x47 ft.; Beverly T. Nelson, Archt., Chemical Bldg.

N. C., Asheville—L. B. Jackson, Jackson Bldg., erect \$10,000 garage, 32 Banks Ave.; brick, tile, steel frame, built-up roof, 2-story and basement, 100x50 ft.; owner builds by day labor.

S. C., Spartanburg—Conner & Patterson, Inc., capital \$10,000, chartered; T. E. Conner, W. W. Gregory; automobile parts and repair shop.

Tenn., Clarksville—Loeble Motor Co., capital \$20,000, incorporated; Carleton C. Loeble, Sterling Fort.

Tenn., Nashville—Firestone Tire & Rubber Co., Akron, Ohio, acquired site, West End, Ellison and 25th Ave.; erect \$50,000 master service station; to be occupied by Hancock Tire Co., 904-6-9 Broad St.

Tex., Bastrop—J. L. Wilbarger let contract to J. T. Peterson for stucco filling station east of Main St.; Cities Service Co. to operate.

Tex., Dalhart—Dick Coon let contract to Floyd Matthews, for garage; 70 x 100 ft., terra cotta, face brick; to be occupied by Brummett-McCoy, Oakland-Pontiac dealers.

Tex., Dallas—W. J. Kain, 2110 Bryan St., erect \$11,000 service station.

Tex., Houston—M. C. Oldham, 4809 Walker Ave., let contract to O. P. Steeger, Second Natl. Bk. Bldg., for \$15,000 garage, Main St., and Dennis Ave., 1-story, hollow tile; to be occupied by A. & B. Motor Co., 707 Austin St.

Tex., Husenberg—Northern Contracting Co., Union Natl. Bk. Bldg., Houston, has contract for \$15,000 garage, for D. I. Lowe; hollow tile, stucco, steel trussed construction, 60x120 ft., 1-story; Robert C. Smallwood, Archt., 4510 Archer St.

Tex., Karnes City—W. C. Bodden erect filling station and group of tourist cottages.

Tex., San Antonio—Robert Thompson, Texas Theatre Bldg., has low bid from Moeller & Weilbacher, 1211 Willow St., for display and sales room, Main and Poplar St., at \$96,987; Packard Motor Co., Lessee; Atlee B. & Robt. M. Ayres, Archt., Bedell Bldg.; W. E. Simpson Co., Engr., Natl. Bk. of Commerce Bldg. 4-18

Tex., Vernon—E. H. Piggs soon begin erecting \$18,000 building, Wilbarger and Lamar St.; to be occupied by Millins Motor Co.

Tex., Wichita Falls—J. W. Stone, 1400 Grant St., let contract to Harrison Co., 1300 Eighth St., for building 1207 Indiana St.; 75x150 ft., 1-story, brick, cost \$15,000 to \$16,000; to be occupied by Wilson Auto Top and Body Works.

W. Va., Weirton—Graham Sales Co. of Weirton, capital \$25,000, incorporated; William I. Graham, W. F. Bowers.

Railways

Alabama—Gulf, Mobile & Northern R. R. Co., I. B. Tigrett, Pres., Mobile, applied to Interstate Commerce Comm. for permission to acquire Jackson & Eastern, Meridian & Memphis and Birmingham & Northwestern Ry., short lines, operated under lease.

Ark., Waldron—Arkansas-Western Ry., A. N. Reese, Ch. Engr., Kansas City, Mo., authorized by Interstate Commerce Comm. to extend lines in Scott County, from Waldron to opint about 23.5 mi. southeast, 3-28

Md., Baltimore—Pennsylvania Railroad, E. B. Temple, Ch. Engr., Philadelphia, Pa., agreed to electrify lines through city by using underground conduits; plans involve electrification of Calvert St. lines, move Calvert St. Station, widening Calvert St.; build viaduct over Calvert St. tracks, railroad bear portion of cost; provide tunnel, terminals and other facilities; tunnel and terminal project involves about \$22,500,000.

N. C., High Point—High Point, Thomasville & Denton R. R., C. F. Tomlinson, Pres., applied to Interstate Comm. for permission to issue \$50,000 promissory notes, proceeds to be used for acquiring 25 freight cars.

Tenn., Chattanooga—Coverdale & Colpitts, Const. Engrs., 152 Wall St., and George H. Burgess, New York, announced taking steps for improving recently purchased Chattanooga, Alabama and Georgia Ry. Co., H. W. Stanley, Pres.; replace bridges, purchase locomotives and cars and lay 85-lb. and heavier rail; will consider extending line to Birmingham in near future.

Texas—Chicago, Rock Island & Pacific Ry. Co., J. E. Gorman, Pres., Chicago, Ill., confirms report, ordered 5 mountain type passenger locomotives, from American Locomotive Co., 30 Church St., New York, 5-2

Tex., Dallas—Texas & Pacific Ry. Co., J. L. Lancaster, Pres., reported, proposes expending \$16,653,714 for additions and betterments during 1929; includes laying heavier rails, ballasting track, strengthening bridges, trestles and culverts, additional yard tracks, sidings and industry tracks, improving terminals, changing grade or alignment, signals and interlocking plants, second main line tracks, freight and passenger stations, office buildings, fuel and water stations and appurtenances, shop buildings, engine houses, shop machinery, tools, etc.

Tex., Palestine—Texas & New Orleans R. R. Co., A. D. McDonald, Pres., New York, applied to Interstate Commerce Comm. for permission to acquire control, by lease, of Texas State R. R., extending Palestine to Rusk.

Railway Shops and Terminals

Mo., St. Louis—See Miscellaneous Construction.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Birmingham—City Comm., Eunice Hewes, City Clk., receives bids May 14 to pave Woodland Ave. with asphaltic conc., 3100 cu. yd. excavation, 1660 sq. yd. asphaltic conc., 1055 lin. ft. combined curb and gutter, inlet, cost about \$17,900; pave Fayette St. with plain conc., 6000 cu. yd. excavation and borrow, 7540 sq. yd. 8-in. conc., 3474 lin. ft. conc. curb, inlets, manhole; A. J. Hawkins, City Engr.

Ala., Birmingham—City Comm., Eunice Hewes, Clk., plans expending \$30,745 to pave Third Ave., Avenue Q and Sixth Alley; A. J. Hawkins, City Engr.

Ala., Phoenix City—City Comm., plans paving 6 blocks on Fifth St.

Arkansas—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, receives bids May 15 for 8 roads and bridge: Craighead County—7½ mi. gravel surface, High-

way No. 18, Poplar Ridge-Monette road, 40-192 cu. yd. excavation and borrow, 15,132 cu. yd. gravel course; Van Buren County—18 mi. crushed stone surface, Highway No. 65, Clinton-Conway road, 18,363 cu. yd. crushed stone surface course; Hempstead County—furnish gravel and build 7½ mi. gravel surface, Highway No. 4, Hope-Washington road, 7888 cu. yd. gravel surface course; Logan County—4½ mi. conc., Highway No. 22, Fort Smith-Dardanelle road, 4700 cu. yd. borrow, 48,071 sq. yd. fine grading, subgrading, shoulders, 48,071 sq. yd. conc. paving, wetted earth or ponding method of curing or conc. pavement, asphalt seal coat method of curbing.

In Nevada County—furnish gravel and build 8½ mi. gravel surface, Highway No. 19, Laneburg-Rosston road, 17,650 cu. yd. gravel surface course; Hot Springs County—10 mi. conc., Highway No. 67, Malvern-Dondaldson road, 3500 cu. yd. borrow, 107,894 sq. yd. fine grading, subgrade and shoulders, 107,995 sq. yd. conc. pavement, wetted earth or ponding method of curing or asphaltic seal coat method of curing; Garland and Hot Springs Counties—21½ mi. gravel surface, Highway No. 70, Hot Springs-Glenwood road, 42,972 cu. yd. gravel surface course, crushed and screened; Jefferson County—9½ mi. conc., Highway No. 65, "Dollarway," Little Rock-Pine Bluff road, 6000 cu. yd. borrow, 101,201 sq. yd. fine grading, subgrade and shoulders, conc. pavement, wetted earth or ponding method of curing or asphaltic seal coat method of curing.

Arkansas—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, receives bids May 15 for 2 roads: White-Jackson Counties—12½ mi. gravel and crushed stone surface, Pleasant Plains-Bradford road; Miller County—2 mi. grading, draining, Texarkana-Arkansas-Louisiana line road.

Arkansas—State Highway Comm., Dwight H. Blackwood, Commr., Little Rock, receives bids May 15 for 2 asphalt or conc. roads in Craighead County: Jonesboro-Memphis road; Jonesboro-Leachville road, C. S. Christian, State Highway Engr.

Arkansas—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, receives bids May 15 for 7 roads and 14 bridges: Crittenden County—15 mi. gravel surface, Highway No. 3, Lehi-Chatfield road, 15,433 cu. yd. gravel surface course; St. Francis and Crittenden Counties—18½ mi. gravel surface, Highway No. 50, Widener-Chatfield road, 18,825 cu. yd. gravel surface course; Polk County—9 mi. grading, draining, gravel surface, Highway No. 1, Harrisburg-Cross County Line road, 88,625 cu. yd. excavation and borrow, 18,011 cu. yd. gravel surface course, 56,368 lb. rein. steel; Yell County—7½ mi. conc., Highway No. 22, Fort Smith-Dardanelle road, 79,626 sq. yd. fine grading, subgrade and shoulders, 80,014 sq. yd. conc. pavement, wetted earth or ponding method of curing, or asphaltic seal coat method of curbing.

In Calhoun County—9¼ mi. gravel surface, Highway No. 115, Thornton-Hampton road, 19,292 cu. yd. gravel surface course; Independence County—11 mi. gravel surface, Highway No. 25, Batesville-Heber Springs road, 7532 cu. yd. gravel surface course; Pike County—9 mi. gravel surface, Highway No. 34, Kirby-Amity road, 12,254 cu. yd. gravel surface course; Cleveland-Dallas Counties—10 rein. conc. deck girder bridges on conc. pile bents, totaling 1095 ft., Highway No. 167, Fordyce-North road, 2000 cu. yd. borrow, 297,900 lb. rein. steel, 2360 lin. ft. conc. piling; Franklin County—2 struct. steel and rein. conc. bridges, totaling 462 ft., Highway No. 64, Ozark-Mulberry road, 174,834 lb. rein. steel, 78,000 lb. struct. steel; Polk County—2 struct. steel and rein. conc. bridges, totaling 223 ft. over Ouachita River, Highway No. 71, Mena-North road, 5235 cu. yd. excavation, 88,475 lb. rein. steel, 48,690 lb. struct. steel.

D. C., Washington—Dist. Commrs. received low bid from McGuire & Rife Inc., 101 M St., N. E., Washington, \$248,890, \$1,700 sq. yd. resurfacing on 30 streets in Northwest section; Roland M. Brennan, Ch. Clk. of Engr. Dept.

D. C., Washington—Dist. Commrs. received low bid from Warren F. Brenizer Co., 101 New York Ave., N. E., Washington, \$296,787, for conc. roadways on 46 streets in Northeast and Southeast sections of city.

D. C., Washington—Dist. Commrs. receive bids May 13 to repair asphaltic pavement with asphaltic materials.

D. C., Washington—Dist. Commrs. receive bids May 14 to repair cement conc. base and cement conc. roadway or alley pavement with cement conc.

Fla., Miami Beach—City, C. W. Tomlinson, Clk., plans expending \$210,428, for improve-

ments: 8-ft. sidewalk on North Bay road; pave 36-ft. wide, North Bay road, bit. wearing surface, 10-in. rock base, conc. curb and gutter; pave 46-ft. wide, Forty-fourth St., bit. wearing surface, rock base; 40-ft. wide Collins Ave., etc.; whiteway system, Bay road; storm sewers in Sunset Lake subdivision, sanitary sewers, Pine Tree Drive and Sheridan Ave.

Florida—State Road Dept., Robert W. Bentley, Chmn., Tallahassee, receives bids May 15 for 3 roads: Palm Beach County—4 mi. bit. surface treatment with and without sand and shell covering Road No. 25, near Twenty-Mile Bend; Jefferson County—0.38 mi. grading, draining Road No. 96, Monticello to Waukenah; 5.13 mi. grading, draining Road 96, Waukenah to Wacissa; J. L. Cresap, State Highway Engr.

Fla., Ft. Barrancas—Quartermaster Corps, receives bids May 16 for 3500 lin. ft. conc. curb along approach road.

Ga., Dawson—Terrell County Commrs. plan paving Florida Short Route from Dawson to Parrott, on west side of Seaboard Air Line R. R.

Kentucky—State Highway Comm., Frankfort, receives bids May 24 for 313 mi. bit. surface treatment on 49 roads in Hardin, Larue, Marion, Washington, Nelson, Jefferson, Shelby, Henry, Owen, Gallatin, Bracken, Campbell, Pendleton, Fleming, Nicholas, Harrison, Scott, Franklin, Woodford, Jessamine, Mercer, Garrard, Montgomery, Clark, Fayette, Madison, Estill, Laurel, Bell, Lewis, Greenup, and Boyd Counties.

Louisiana—Louisiana Highway Comm., O. K. Allen, Chmn., Baton Rouge, receives bids May 28 for 20 roads, totaling 115.43 mi. gravel or kindred material in 15 parishes, including West Carroll, East Carroll, Ouachita, Union, St. Martin, Caldwell, Washington, East Feliciana, Beauregard, St. Landry, Allen, Lafourche, Vermilion, Ascension and St. Helena; also 8 bridges and trestles in 8 parishes, including Concordia, Vernon, Natchitoches, East Feliciana, St. Helena, Winn, La Salle and St. Landry; L. R. Ames, State Highway Engr.

Louisiana—Louisiana Highway Comm., O. K. Allen, Chmn., Baton Rouge, plans pushing 800 mi. conc. pavement program; \$30,000,000 bond issue voted last fall, available; L. R. Ames, State Highway Engr.

La., Lake Charles—Louisiana Highway Comm., O. K. Allen, Chmn., Baton Rouge, considering widening and raising Gulf Beach Highway south of Sulphur, Calcasieu Parish, between Calcasieu Ship Channel and Hackberry Oil Field; L. R. Ames, State Highway Engr.

La., New Orleans—City, T. S. Walmsley, Commr. of Public Finance, plans 2100 ft. paving, footwalks, driveways, draining, Holly Grove St., Palmetto to Pontchartrain; 2100 ft. General Pershing St., Magazine to St. Charles St.; cost \$40,000 each; M. Vallas, City Engr.

La., Lake Providence—East Carroll Parish Police Jury, H. C. Quicksall, Pres., receives bids May 15 for 3,000 cu. yd. gravel surface, on ungravelled portion, Providence Bayou road, and Riddle Lane road.

Maryland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, receives bids May 14 for 9 roads: Allegany County—.63 mi. conc. in car track on Main St., Lonaconing, Cont. A-31-A; Washington County—.93 mi. conc., from Big Pool toward Fort Frederick, Cont. W-60; Baltimore City—.7 mi. sheet asphalt, York road, from Northwest to McCabe Ave., BC-77; Charles County—.225 mi. gravel, Oliver's Shop-Wicomico road, end of Cont. C1-41 to Wicomico, Cont. Ch. 67; St. Mary's County—1 mi. gravel, from Blair's Hill to Compton, 1.5 mi. gravel, Clements-Leonardtown road, from end of Cont. Sm-44 to Leonardtown road, Cont. Sm-52; Queen Annes County—1 mi. conc., Stevensville-Love Point road, from end of Cont. Q-45 toward Love Point, Cont. Q-47; Somerset County—1.16 mi. conc. Princess Anne-Mt. Vernon road, end of Cont. S-29 toward Mt. Vernon, Cont. S-35; Baltimore County—.232 mi. conc. shoulders, Park Heights Ave., from Old Court road to Valley road, Cont. B-10-A; Prince Georges County—.359 mi. conc. shoulders, and alternate bids to resurface with hot and cold bit. mixtures, from T. B. to Mattawoman; L. H. Stewart, Sec.

Md., Baltimore—City, Bd. of Estimates authorized expending \$79,000 to pave sections of 7 streets, including Ellerslie, McKewin Ave.; Thirty-eighth St.; Nathan L. Smith, Highways Engr.

Md., Baltimore—City, Wm. F. Broening, Mayor, plans widening Philadelphia road, Monument St. to city line; two 36-ft. roadways, 40 to 50 ft. wide grass plot, 15-ft. sidewalks; two 24-ft. roadways with 56-ft. wide grass plot on Monument St.; Nathan L. Smith, Highways Engr.

Md., Baltimore—City, Nathan L. Smith, Highways Engr., plans widening Saratoga St. to 80 ft.; Wm. F. Broening, Mayor.

Md., Chestertown—Kent County plans expending \$900,000 for road building. See Financial News Columns.

Md., Towson—Baltimore County Comms., John R. Haut, Ch. Clk., receive bids May 14 to improve 5 roads in Group No. 6 and 1 road in Group No. 7: .07 mi. conc., Centre Ave. (Towson Manor), Burke Ave. to Linden Ave.; .08 mi. conc., Aigburth Ave. (Towson Manor), Burke to Linden Ave.; .16 mi. conc., Edgewood road (Anneslie), Anneslie road to Regester Ave.; .10 mi. conc., Holly Lane (Anneslie), Regester Ave. to Dunkirk road; .05 mi. Holly Lane (Anneslie), Dunkirk road to Anneslie road, all Ninth Dist.; .26 mi. conc., West Elm Ave., Belair road to property line of Blind Asylum, 14th Dist.; Samuel A. Green, Roads Engr.

Miss., Aberdeen—City plans expending \$25,000 for conc. road from East Commerce St. to East Aberdeen; \$125,000, for conc. bridge on Highway No. 45.

Miss., Greenville—Washington County plans expending \$500,000 for roads. See Financial News Columns.

Miss., Holly Springs—Marshall County Bd. of Supvrs. will let contract to A. Dumas for dirt work on Byhalia-Victoria road, 3 mi. north and 3 mi. south of Victoria, from Warsaw, south of Byhalia to Tennessee line, north of Byhalia.

Miss., Okolona—Chickasaw County Bd. of Supvrs. plan gravel surfacing over 100 mi. secondary roads within next month.

Miss., Poplarville—City, E. H. Hyde, Mayor, plans expending \$80,000 to hard surface 4 mi. streets leading toward Lumberton, Picayune, Gulfport and Bogalusa, etc.; plans selling bonds. See Financial News.

Mo., Appleton City—City plans paving Main St.; E. F. Antila, Projecting Engr. for State Highway Dept.

Mo., Clayton, St. Louis—City, A. H. Kerth, Clk., receives bids May 14 to improve north half of Clayton, from east city limits to line east of center line of Big Bend, Clayton.

Mo., Clayton, St. Louis—St. Louis County, Roy Jablonsky, Highway Engr., receives bids May 15 to improve Hanley road, Manchester, north.

Mo., Excelsior Springs—City Council plans paving Broadway St. with 7-in. rein. conc., Marietta to Saratoga; repair Broadway St. from Marietta to Thompson Ave.

Mo., Joplin—City plans expending \$5300 for one course conc. pavement, squeeze asphalt top, Eighth St., Main to Kentucky Ave.

Mo., Kansas City—City, Matthew S. Murray, Dir. of Public Works, approved paving Fourteenth St. with 2-in. asphaltic, conc. or Warrentite bitulithic surface, on 8-in. conc. base, Campbell St. to Paseo; resurfacing Main St., 2-in. asphaltic conc. top on old pavement, Thirty-first St. to Linwood Blvd.

Mo., Kirkwood—City, W. J. Donworth, Clk., receives bids May 13 to improve seven streets, including Clay, Woodbine, West Clinton; sidewalks on 6 streets, including Rose Lane, George St.

Mo., Springfield—City Council plans paving with conc. Boonville Ave., Public Square to Phelps St.; widen and pave north and south edges of Walnut St., Kimbrough to Grant Ave.

Mo., Springfield—Rex Morris, Greene County Highway Engr. for Springfield Special Road Dist., making survey of Talmadge St. for route of U. S. Highway No. 66.

Mo., St. Louis—Bond Issue Securities Committee, tentatively approved paving 3 streets: Repaving Broadway, Morin to Valvary Ave., \$140,874; Broadway, Calvary to Switzer Ave., \$104,000; Eichelberger St. Macklind to Hampton Ave., \$55,000; Bd. of Public Service plans patented paving material to repave 3 streets: Vest Belle Place, Bircher-Kingsway and Kingshighway Northwest.

N. C., Asheville—State Highway Comn., John D. Waldrop, Acting Highway Engr., Raleigh, receives bids May 28 to pave east approach to Beaucatcher Tunnel, Route 10, Buncombe County.

N. C., Durham—Duke University plans receiving bids on or about May 20 for about 30,000 sq. yd. paving in connection with university building program.

N. C., Durham—City, R. W. Rigsby, Mgr., will let contract about May 20 for 1 mi. 40-ft. pavement, Chapel Hill St., Chapel Hill

road to Duke University campus. 4-11
N. C., Elizabeth City—See Bridges, Culverts, Viaducts.

N. C., High Point—City, E. M. Knox, Mgr., rejected bids for street paving; S. H. Strickland, City Engr. Lately noted bids Apr. 25.

Okla., Stillwater—Payne County Comms., J. H. Raedeker, Commr., plans about 20½ mi. paving and 14¼ mi. grading State Highway No. 10½ mi. paving State Highway No. 33, Coyle Bridge east to Highway No. 40, north to Stillwater; 10 mi. State Highway No. 1, east of Stillwater; complete hard surfacing Highway No. 35 from Cushing to Guthrie and to Oklahoma City, except for 5-mi. strip; grade and drain 10 mi. Highway No. 33, east of Cushing to Creek County line; 7 mi. Highway No. 40, from end of pavement south of Stillwater to No. 33; cost about \$400,000.

Oklahoma—State Highway Comn., John H. Rightmire, Asst. State Engr., Oklahoma City, received low bids for 9 roads: Muskogee County—2½ mi. conc. paving, Federal Aid Project R-7, Ellis & Lewis, Surety Bldg., Muskogee, \$3,471; 2½ mi. Project R-18, Sec. A, Ellis & Lewis, \$7,073, grading, draining, American Paving Co., \$47,710, conc. paving; Lincoln County—4 mi. Project 137, H. L. Cannady & Co., 1116 S. Lewis St., Tulsa, \$73,610; Osage County—5 mi. Project 153, Park & Co., Oklahoma City, Sec. I, \$6,800; Sec. J, \$95,968; Beckham County—4.1 mi. conc., Standard Paving Co., 2119 E. 11th St., Tulsa, \$92,410; Canadian County—5 mi. conc., Park & Co., \$10,268, Sec. A, \$96,882, Sec. B; Seminole County—4 mi., Edmiston Construction Co., Chickasha, \$92,148.

Okla., Oklahoma City—City, E. M. Fry, Mgr., plans grading, 9000 sq. yd. rock asphalt paving Creston Drive and Madison St., cost \$38,450; W. W. Small, City Engr.

Okla., Tulsa—City, Dan Patton, Mayor, plans expending \$93,284 to pave Fifth Ave., new approach to West Tulsa Bridge; widen Fifth Ave., Cheyenne Ave. to Seventh St.; pave Fifth Ave., Seventh to Eleventh St.; widen Sixth St., Denver Ave. to Seventh St.; widen Seventh St., Galveston to Houston Ave.; K. R. Teis, City Engr.

South Carolina—State Highway Comn., Ben M. Sawyer, Ch. Highway Commr., Columbia, receives bids May 21 for 5 roads: Greenville-Pickens Counties—10,227 mi. plain Portland cement conc., Route No. 2, Greenville and Easley, 31,163 cu. yd. excavation, 71,154 sq. yd. 7½-6-7½-in. 20-ft. wide, and 46,816 sq. yd. 8-6½-8-in. 18-ft. wide, conc. paving, Berkley County, 329 mi. Route 17, approaches to overhead bridge near Mt. Holly, 3,658 cu. yd. excavation, 3,141 sq. yd. 8-6-8-in. 18-ft. wide paving; York County—775 mi. grading, topsoiling, Route 5, town of York, 6,511 cu. yd. excavation, 2,318 cu. yd. topsoil surface, Greenville County—2,507 mi. grading, subgrade and shoulders, including excavation and embankment, Route No. 25, Greenville to Travelers Rest, 26,476 sq. yd. 7½-6-6½-in. 18-ft. wide conc. paving.

S. C., Greenville—Greenville County considering hard-surfacing Travelers Rest-Marietta road; surface treat Geer Highway over mountains by Caesar's Head to North Carolina line; widening Camp Road; rebuilding parts of Greenville-Travelers Rest road; C. J. Dunston, Div. Engr.

S. C., Greenwood—City considering extending Rush Ave., to Bailey Creek; paving Phoenix St., from Fair Grounds to East Creswell St., and Milwee St., Phoenix to South Main St.; also overhead bridge over Seaboard R. R.

Tennessee—Dept. of Highways and Public Works, Baker, Commr., Nashville, receives bids May 31 for 11 roads, involving 66 mi. high type paving, 39 mi. grading, draining, and 24 bridges and overhead crossings, costing about \$2,500,000: Hamilton County—2 steel and conc. bridges, State Highway No. 29, Soddy to Sale Creek; Obion County—steel and conc. overhead and approaches, thereto, State Highway No. 5, over I. C. R. R., at Rives; Henry County—11 mi. grading, draining, Highway No. 54, Weakly County line to Paris; also 10 bridges over 20-ft. spans; Shelby County—steel and conc. overhead and approaches, Highway No. 14, over I. C. industrial track, Memphis; Dickson County—8.44 mi. grading, draining, Highway No. 1, Humphreys County line to Dickson; 2 bridges over 20-ft. spans; Knox County—7.42 mi. grading, draining, Highway No. 9, Anderson County line to Knoxville; 2 bridges over 20-ft. spans; Robertson County—steel and conc. overhead, and approaches, Highway No. 11, over L. & N. R. R., at Adams; Hamilton County—widen conc. overhead over Signal Mountain Ry., widen bridge over Silver Creek, Highway No. 29, between Stringers Ridge tunnel and Valdeau.

In Crockett County—steel and conc. overhead, Highway No. 76, over G. M. & N. R. R., at Bells; Davidson County—5 mi. grading, draining, Highway No. 100, Williamson County line to Pasquo; Carter County—3 steel and conc. bridges, and approaches, State Highway No. 67, Fish Springs; Chester County—5.26 mi. paving, Highway No. 5, Henderson to McNairy County line; Knox-Sevier-Jefferson Counties—6.844 mi. Highway No. 9, between Trentonville and point near Jefferson County line; Williamson County—10.77 mi. paving, Highway No. 6, Maury County line to Franklin; Scott County—14.24 mi. paving, Highway No. 29, Morgan County line to Helenwood; 14.05 mi. paving, Highway No. 29, Helenwood to Kentucky State line; Wayne County—14.24 mi. paving, Highway No. 15, Waynesboro to Hardin County line; Henry County—steel and conc. overhead and approaches, Highway No. 76, over N. C. overhead near Paris; Sullivan County—arch bridge and approaches, over Holston River, on 1 mi. Highway No. 36; Hickman County—7.34 mi. grading, draining, Highway No. 100, between point near Centerville and Project 508-A.

Tenn., Alamo—Crockett County plans expending \$750,000 to improve highways. See Financial News Columns. 4-4
Tenn., Bristol—City, W. K. Carson, Treas., plans expending \$20,000 to widen Ninth St., State to Shelby. See Financial News Columns. 4-18
Tenn., Johnson City—City, W. O. Dyer, Commr. of Streets, plans starting at once, paving East Main St., Broadway to corporate limits of Johnson City; widen East Maple St., Roan St. to Clinchfield R. R.

Texas—State Highway Comn., R. S. Sterling, Chmn., Austin, appropriated funds for roads in 5 counties: Van Zandt County—2 mi. conc. and drainage structures, Highway No. 15, eliminate conc. dips, estimated cost \$12,000; Upshur County—3 mi. grading, eliminating curves, Highway No. 65, extending north from Gregg County line; J. B. Early, Maintenance Engr., Austin; Brooks County—17.6 mi. two course limestone rock asphalt surface, Highway No. 12, from end of conc. paving south of Falfurrias to Hidalgo County line, estimated cost \$92,000; Shelby County—6.4 mi. rebuild base and surface with double bit. surface treatment, Highway No. 8, Center to Shelbyville, estimated cost \$40,000; Rusk County—2.25 mi. double bit. surface treatment, Highway No. 26, from point 4 mi. from Henderson to point northwest of Henderson.

Tex., Abilene—Taylor County, Tom K. Eplen, Judge, plans 4.63 mi. grading, draining, rein. conc., Highway No. 30, Abilene to Jones County line, estimated cost \$200,000; W. J. Van London, Res. Engr.

Tex., Alice—Jim Wells County, R. R. Mullen, Judge, plans draining and surfacing approaches to 6 bridges, Highway No. 12, Alice to Alfred, estimated cost \$35,000; C. E. Wright, Res. Engr., Hebbronville.

Tex., Anderson—Grimes County, W. S. Stampely, Judge, plans 3.315 mi. conc., Highway No. 90, from Sta. 7 plus 06.7 near Navasota to Navasota River, estimated cost \$75,000; Oscar A. Seward, Res. Engr., Navasota.

Tex., Anson—Jones County, Owen Thomas, County Judge, receives bids May 18 for 11.5 mi. grading, draining, gravel surfacing Hamby road, from Taylor County line north; 13,000 cu. yd. gravel surface, 35,000 cu. yd. unclassified road embankment, 19,600 lb. rein. steel; also one 80-ft. and four 20-ft. I-beam bridges.

Tex., Athens—Henderson County, A. B. Coker, Judge, plans 9.460 mi. grading, draining, Highway No. 31, Athens to Malakoff, estimated cost \$99,000; S. J. Treadway, Res. Engr.

Tex., Ballinger—Runnels County, Paul Trimmer, Judge, plans 19.246 mi. grading, draining, conc., Highway No. 20, Ballinger to Tom Green County line, estimated cost \$605,000; G. M. Garrett, Res. Engr.

Tex., Bay City—Matagorda County, A. Harris, Judge, plans 12.193 mi. rein. conc., Highway No. 58, Bay City to Linville Creek, 18 or 20-ft. wide; E. N. Gustafson, Res. Engr.

Tex., Bellville—Austin County, C. D. Duncan, Judge, plans 8.8 mi. grading, draining Highway No. 73-A, East Hill Creek to point east of Industry, estimated cost \$115,900; Herbert Schroeter, Res. Engr.

Tex., Cameron—Milam County, Jeff T. Kemp, Judge, plans 13.719 mi. conc., Highway No. 43, from point near Milano to Rockdale, estimated cost \$340,000; A. F. Mitchell, Engr.

Tex., Centerville—Leon County, W. D. Lacey, Judge, plans 16.408 mi. grading, draining, Highway No. 43, Oakwood to Buffalo; J. A. Waller, Res. Engr.

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Tex., Dallas—Dallas County Comms. Court, Charles E. Gross, County Auditor, receives bids May 20 for 3.23 mi. conc. pavement on Buckner Blvd., from intersection East Pike, State Highway No. 15, to intersection Garland-Bankhead Highway; Rollins & Clinger, Dist. Engr.

Tex., Decatur—Wise County, Carl Faith, Judge, plans 7.765 mi. double bit. surface treatment, Highway No. 59, from point northwest of Bridgeport through Bridgeport to Sandy Creek, estimated cost \$121,500; O. W. Hunn, Res. Engr.

Tex., El Paso—El Paso County, E. B. McClintock, Judge, plans 1.726 mi. conc., Highway No. 1, city limits of El Paso to Ascarate, at Alameda Ave.; F. E. Wilson, Res. Engr.

Tex., Fairfield—Freestone County, P. O. French, Judge, plans 9.023 mi. grading, draining, Highway No. 7, Freestone County line to Teague; Mack B. Hodges, Res. Engr., Teague.

Tex., Fort Stockton—Pecos County plans 11.70 mi. grading, draining, Highway No. 3, Brewster County line to Terrell County line, estimated cost \$100,000; P. H. Caldwell, Res. Engr., Crane.

Tex., Franklin—Robertson County, Joe Y. McNutt, Judge, plans 1.275 mi. rein. conc., Highway No. 6, Hearne to Brazos County line, estimated cost \$355,000; C. B. Thames, Res. Engr., Hearne.

Tex., Fort Worth—City, O. E. Carr, Mgr., plans widening South Main St., Tucker to Morphy, and Rio Grande to Tucker.

Tex., Fort Sam Houston, San Antonio—U. S. Government, C. J. Moore, Lieut., Quartermasters Corps, receives bids at office of Div. and Post Quartermaster, May 18 for 120 tons coarse black base asphalt and 80 tons topping asphalt on roadways at Post Cemetery.

Tex., Graham—Young County, W. F. Parsley, Judge, plans 1.545 mi. surface, Highway No. 79, Olney to Archer County line, estimated cost \$36,000; Guy R. Johnston, Res. Engr.

Tex., Graham—Young County, W. F. Parsley, Judge, plans 12.643 mi. sledged stone base, bit. top, Highway No. 24, Graham to Newcastle, estimated cost \$230,000; Guy R. Johnston, Res. Engr.

Tex., Groveton—City plans expending \$14,000 to pave several main business streets. See Financial News Columns.

Tex., Grayson—Sherman County, A. S. Noble, Judge, plans 2.753 mi. grading, draining conc., Highway No. 5, Cooke County line to Sta. 165 plus 00, estimated cost \$79,000; W. D. Dockery, Res. Engr.

Tex., Houston—Harris County Comms. Court, Norman Atkinson, County Judge, may receive bids to surface treat 4 highways in Precinct No. 4: Goose Creek-Lynchburg road, Market St. to S. P. Ry. tracks; Ferry road, Bob Smith road to Ferry road; Wisconsin Ave., and Goose Creek Pelly road; Charles R. Haille, County Engr.

Tex., Houston—Harris County, Norman Atkinson, Judge, plans 1.933 mi. 20-ft. rein. concrete pavement, 4-ft. shoulders on 36-ft. roadway, Highway No. 3, Oats road to Spring Gully, estimated cost \$113,000; 122 mi. 20-ft. rein. conc. pavement, 4-ft. metal shoulders on 36-ft. roadway, Highway No. 3, end of Federal Aid Project No. 512-G to Oats road, estimated cost \$38,000; A. J. Wise, Res. Engr.

Tex., Palo Pinto—Palo Pinto County and Erath County, J. F. Whisenant, Judge, plan 4.236 mi. grading, draining, Highway No. 108, from end of gravel road east of Strawn to Thurber; L. C. McCanliss, Res. Engr., Fort Worth.

Tex., Palestine—Anderson County, E. H. Shelton, Judge, plans 11.659 mi. grading, draining, Highway No. 19, Montalba to Henderson County line, estimated cost \$107,000; C. H. Kendall, Res. Engr.

Tex., Panhandle—Carson County, Asberry A. Callaghan, Judge, plans 10.037 mi. conc., Highway No. 75, Gray County line to point west of Lark, estimated cost \$255,000; M. L. Grady, Res. Engr.

Tex., Port Davis—Jeff Davis County, R. Barnett, Judge, plans 2.23 mi. grading; Highway No. 3, relocation and grade reduction at Wild Rose, estimated cost \$13,000; A. J. Adecock, Engr.

Tex., Rusk—Cherokee County, J. J. Bolton, Judge, plans 10.614 mi. grading, draining, Highway No. 40, Anderson County line to Jacksonville, estimated cost \$115,000; G. A. Bracher, Res. Engr.

Tex., San Antonio—City, C. M. Chambers, Mayor, receives bids May 13 to improve East Euclid Ave., Main to Jones Ave.; I. Ewig, City Engr.

Tex., San Antonio—Bexar County, Perry S. Robertson, Judge, plans grading, draining, etc., Highway No. 16, city limits of San Antonio to Wilson County line; Highway No. 2, city limits to Medina County line; B. B. Freeborough, Res. Engr., 716 Maxerick Bldg.

Tex., San Antonio—City, Fred Fries, Clk., plans widening Navarro St.

Tex., San Angelo—City, H. O. Goodson, Mgr., plans grading Irving St., Twenty-fifth to Santa Fe Station; North Main St., Nineteenth St. to point south.

Tex., Seguin—Guadalupe County, J. B. Williams, Judge, plans 11.763 mi. grading, draining, Highway No. 3, San Antonio-Houston Highway, Seguin to Gonzales County line; B. B. Freeborough, Res. Engr., 716 Maxerick Bldg., San Antonio.

Tex., Sierra Blanca—Hudspeth County, R. Durrill, Judge, Van Horn, plan 25.124 mi. grading, draining Highway No. 130, Ellisons to intersect with Highway No. 54; F. E. Wilson, Engr., El Paso.

Tex., Temple—City Comms. plan receiving bids for sidewalks in city park and 15-ft. rein. conc. paving on 4 sides municipal building.

Tex., Vernon—Wilbarger County, J. V. Townsend, Judge, plans 13.313 mi. rein. conc., Highway No. 28, Vernon to Ford County line; John B. Nabors, Res. Engr.

Tex., Waco—McClennan County, R. R. Stanford, County Judge, receives bids soon to grade 40 mi. highway.

Tex., Waco—City Commr., E. E. McAdams, City Mgr., receives bids soon to re-top Franklin Ave., Washington, Fourth and Eighth St.

Virginia—State Highway Comm., H. G. Shirley, Commr., Richmond, receives bids May 21 for 4 roads: Campbell County—.692 mi. conc., Route 14, from Altavista, 7.681 sq. yd. conc.; Nansemond County—.5 mi. grade, drain, Route 505, from Nurney, 25.529 cu. yd. excavation; Amelia County—.96 mi. gravel Route 20, approaches to Appomattox Bridge; 25.392 cu. yd. excavation, 3,051 cu. yd. gravel; Henrico County—.7 mi. conc., Route 31, from Richmond to Brook road, 2,689 cu. yd. excavation, 7,414 sq. yd. conc.

Virginia—State Highway Comm., H. G. Shirley, Commr., Richmond, plans bit. surface treat 887 mi. roads by August 1; 3,200,000 gal. bit. material; J. J. Forrer, State Highway Maintenance Engr.

West Virginia—State Road Comm., E. B. Carskadon, Sec., received low bids for 22 roads: Fayette County—.53 mi. grading, draining, stone base course, Beckworth-Fayetteville road, Reed & Lapsley, stop 8, South Charleston, \$218,155; Hampshire County—.44 mi. grading, draining, Romney-Alaska road, Echols Construction Co., Cass, \$50,136; Logan County—.6 mi. grading, draining, stone base course, Chapmanville-Big Creek, Harry Hatfield, Barboursville, \$23,293; Kanawha County—.34 mi. cement conc. South Charleston—St. Albans, Brown & Floyd, Lowenstein Bldg., Charleston, \$96,410; McDowell County—.7 mi. stone surfacing, Jaeger-Rederfield, Mirable & Defuria, Welch, \$133,155; Marion County—.16 mi. cement conc., Fairmont-Smithtown, A. Schuttler & Co., 213 McKlancy St., Fairmont, \$34,177; McDowell County—.41 mi. stone surface, Jaeger-Wyoming, Mirable & Defuria, \$77,519; Mingo and Wyoming Counties—.10.1 mi. stone surface, Justice-McDowell County line road, Koontz Construction Co., Lexington, Ky., \$135,450; Mineral County—.33 mi. grading, draining, Springfield-Alaska road, Marrara & Albright, Kingwood, \$47,443; Marion County—.1 mi. grading, draining, cement conc. Cadillac Garage-Country Club road, R. W. Fimble, 264 Overland Ave., Fairmont, \$67,985; Nicholas County—.76 mi. bit. macad. Twin Churches-Calvin road, Berry & Kelly, Louisville, Ky., \$153,780; Mineral and Grant Counties—.98 mi. bit. macad. Harmanville-Gormanis road, Robert Martin Co., Salem, Va., \$85,901; Monroe County—.3 mi. grading, draining, Sweet Springs-Virginia State line road, Paul Turman, Ivydale, \$64,006; Pocahontas County—.228 mi. broken stone base course, Edray-Randolph County line road, Cadell Construction Co., Maysville, Ky., \$281,267; Preston County—.65 mi. cement, Fellowsville-Tunnelton road, Keely Construction Co., Empire Bldg., Clarksburg, \$155,484; Randolph County—.21.8 mi. broken stone base course, Huttonsville-Pocahontas County line road, Marshall Gillooly, Elkins, \$216,675; Summers County—.41 mi. bit. macad. Bellpoint-Hilldale road, Pattersonhill, Sadler & Terry, Lewisburg, \$77,710; Pendleton County—.36 mi. grading, draining, Oak Flats-Brandwine road, N. G. Scott, Franklin, \$45,279; Tucker County—.13.2 mi. cement conc., Parsons-Thomas road, F. F. Hallam & Son, Washington, Pa., \$417,500; Wetzel County—.3 mi. grading, draining, Wileyville-Hundred road, Paul Turman, \$52,152; Wayne County—.11

mi. gravel surface, Kenova-Lavalette road, G. A. Reeves, Greenup, Ky., \$90,426; Wetzel County 2 mi. grading, draining, Wileyville-Hundred road, Keely Construction Co., Clarksburg, \$65,760. 4-11

W. Va., Elkins—State Road Comm., E. B. Carskadon, Sec., Charleston, receives bids May 28 for 21.8 mi. stone base, Huttonsville-Pocahontas County line road, Randolph County.

W. Va., McMechen—City, Oscar Wilenth, Mayor, considering paving Tenth, Eleventh and Garfield St. and lay sewers in Schaefer addition.

W. Va., Parkersburg—City Council considering paving streets, including Quincy, Liberty, Twenty-third St., and widening 4 streets, to 30 ft. including Seventeenth, Race St.

W. Va., Wayne—Wayne County considering expending \$400,000 to hard surface 2 roads in Ceredo Dist.: From Kenova corporation line, up Big Sandy River, to Dragston, near Cyrus; from southern limits of Ceredo, following Twelve Pole Creek, to Brownstown, then connecting with state road near Buffalo Creek; H. O. Wiles, County Highway Engr. See Financial News Columns.

Contracts Awarded

Ala., Florence—E. J. Kirkpatrick Construction Co., Florence, has contract to grade, pave with conc., curb and gutter, etc. Mobile St., Court to Seminary.

Ga., Ft. Oglethorpe—Hall & Bowen, Macon, have contract, \$63,987, for grading, shoulders and 37,808 sq. yd. conc. paving.

Louisiana—Louisiana Highway Comm., O. K. Allen, Chmn., Baton Rouge, let contracts for 7 roads and 14 bridges: Avoyelles Parish—13.2 mi. gravel, Evergreen-Big Cane Highway, B. W. Clopton, Monroe, \$39,427; Alexandria Construction Co., Alexandria, \$19,444, for material; Plaquemines Parish—8 mi. shell, Magnolia-Rome Place Highway, Devitt & Gravolet, Pointe-a-la-Hache, \$39,857; Sabine Parish—4.292 mi. gravel, Pleasant Hill-Lake End Highway, T. C. Minden, \$99,12; Alexandria Gravel Co., \$4058 for gravel; Red River Parish—11,563 mi. gravel, Coushatta-Ashland Highway, H. C. Vaughan, Shreveport, \$49,405; Iberville Parish—5,067 mi. shell, Carville-New Levee road, A. G. Thomas, \$20,258, road, and \$13,654 for materials; Catahoula Parish—4.87 mi. gravel, Catahoula to Enterprise, Sorrels & McKeithen, Grayson, \$29,592; Ascension Parish—7.89 mi. shell, Southwood to Levee, Tircuit & Co., Plaquemines, construction; A. G. Thomas, for gravel; Union Parish—Corney Creek Bridge, Farmerville-Bernice Highway, George W. Condon, Little Rock, Ark., \$25,660; Webster Parish—8 bridges between Minden and Shongaloo, Lavasseur & Nether-ton, Shreveport, \$41,780; LaSalle Parish—2 bridges between Pollock and Jena, Newsom Bros., Columbia, Miss., \$10,020; Catahoula Parish—2 bridges, Harrisonburg to Enterprise, to Gannett, Seelye & Fleming, Engrs., Mansfield, \$35,253; Morehouse and Richland Parishes—repair Lake Lafourche Bridge, Rayville-Mer Rouge Highway, J. A. Hanchey, Mitte, \$12,310. 3-28

Md., Baltimore—City, Bd. of Awards, let contract to John Leone, 2231 Walbrook Ave., \$27,727, for 11,850 sq. yd. 24-ft. cement conc. paving, 7-in. thick, 1:2.4 mix, 8,400 lin. ft. unarmoured conc. curbing, etc., on 9 streets; Nathan L. Smith, Highways Engr.

Miss., Clinton—City, Mayor and Bd. of Aldermen let contract to Cotton States Construction Co., Birmingham, Ala., and So-Clay Paving Co., Provident Bldg., Chattanooga, Tenn., for 15,046 cu. yd. gravel base, 20,000 sq. yd. paving, 7,300 lin. ft. curb and gutter, 3,500 cu. yd. earth work, 7,000 ft. 10 to 24-ft. storm sewers; Morgan & Co., Inc., Consult. Engrs., Edwards Hotel Bldg., Jackson.

Miss., Kosciusko—City, Mayor and Bd. of Aldermen let contract to Barber Brothers Construction Co., \$64,157, for about 21 blocks paving, including Adams, North, Madison St.

Mo., Independence—Jackson County Court let contracts for 5 roads and bridges, totaling \$905,151: 11.8 mi. conc., Grain Valley-Buckner road, American Paving Corporation, Omaha, \$200,221; 4.2 mi. conc., Courteney road, American Paving Corp., \$117,886; 6.3 mi. conc., Woods Chapel road, Colburn road to U. S. Highway No. 40, American Paving Corp., \$163,283; 18 mi. asphaltic resurfacing, Independence-Oak Grove road, Bayes Construction Co., Indianapolis, Ind., \$190,111; 11.75 mi. asphaltic conc. resurfacing, Spring Haven & Lucas, Indianapolis, \$124,039; bridge over east fork, Little Blue River, Woods Chapel road, Phillips Contracting Co., Buckner, Mo., \$18,841; Leo E. Koehler, County Highway Engr.; Col. E. M. Stayton, and N. T. Veatch Jr., Consult. Engrs., 508 Interstate Bldg., Kansas City. 4-25

Mo., Jackson—Walter Knox & Son, have sub-contract to prepare roadbed along 4 mi. Highway No. 25, between Gordonville and Jackson, Cape Girardeau County.

Mo., Joplin—V. E. Koch has contract, \$1.60 per sq. yd., to pave Pennsylvania Ave. with conc., squeegee asphalt top; to Joplin Construction Co., for conc. sidewalks on Thirtieth St., Joplin to Wall; H. Kost, at \$1.20 per lin. ft., for Seventeenth St. public sewer; at \$2.05 per lin. ft. for conc. tile sewer in Seventeenth St. Sewer Dist. No. 1.

N. C., Asheville—Buncombe County Comm., R. Q. Boyer, County Engr., let contract to R. C. Stevens, 20 College St., and Asheville Paving Co., Technical Bldg., \$10,587, for about 2.5 mi. grading, draining and 5136 sq. yd. conc. paving on Sand Hill School Road extension and French Broad School road extension, \$590 cu. yd. excavation. 1-19

Oklahoma—State Highway Comm., John H. Rightmire, Asst. State Engr., Oklahoma City, let contracts for 9 roads costing \$783,831; Murray and Garvin Counties—4.504 mi. conc., Sec. A and B. Ellis & Lewis, Surety Bldg., Muskogee, \$55,572; Noble County—1.008 mi. conc., Highway No. 77, American Paving Co., \$19,844; Creek County—535 mi. conc. in Bristol, Roy Tanner Construction Co., 1244 N. Main St., Tulsa, \$9,434; Garfield County—7.498 mi. conc., Gudgeon Co., \$98,807; Noble County—5.24 mi. conc., Hyde Construction Co., Enid, \$78,519; Oklahoma County—3.76 mi., S. O. Maxey, \$47,457; Logan County—3.972 mi., Tom Collins, \$58,495; Grant County—5 mi., Hyde Construction Co., \$74,200; Alfalfa County—1.608 mi., Highway Construction Co., Kennedy Bldg., Tulsa, \$24,457; Bryan County—6.65 mi. conc., S. O. Maxey, \$84,162; Noble County—3.32 mi. conc., Hyde Construction Co., \$47,664. 4-18

Okla., Oklahoma City—City, M. Peshek, Jr., Clk., let contract to M. A. Swatek & Co., 519½ W. Main St., \$51,723, to pave South Twenty-ninth St.; at \$17,485, for Twenty-third St.

Okla., Tulsa—City, Park Bd., let contract to J. H. Maxwell, 5 N. Boston St., Tulsa, to grade Mohawk Blvd. from junction of Boston and Cincinnati Ave. with Main St. near Apache St. to Mohawk Park; to Hughes Stone Co., Mayo Bldg., Tulsa, at \$1.30 per cu. yd. to furnish 5000 tons of stone screening for surfacing graded roads.

Tenn., Covington—Tipton County Highway Comm., let contracts for grading 4 roads: To Forum-James Co., Dyersburg, 25 cents per cu. yd. for ½ mi. road, from Munford to Drummonds; at 27 cents per cu. yd. for road from Brighton to Kelley's Corner; to McDade & McDade, Fulton, Ky., at 28½ cents per cu. yd. for 11 mi. road from Covington via Mt. Carmel to Shelby County line; at 27 cents per cu. yd. for 7 mi. road, from Covington to Phelan.

Tex., San Antonio—City, Fred Fries, Clk., let contracts for \$16,162 to improve 2 streets: Howard St., Southwest Bitulithic Co., 302 Castro St.; Carolina St., Colglazier & Hoff, Inc., 125 Crosby St.

Va., Pulaski—Roberts Contracting Co., Pulaski, has contract, \$27,841 for 1.2 mi. road, Newbern Dist.

West Virginia—State Road Comm., F. B. Carskadon, Sec., Charleston, let contracts for 2 roads: Mason County—12 mi. grading, draining, Nine-Mile-Putnam County line road, to Price Construction Co., 2702 Third Ave., Huntington, \$146,628; Webster County—5.4 mi. bff. conc. Camden-on-Gauley-Cowen road, Mace Construction Co., Webster Springs, \$126,508. 5-2

W. Va., Logan—State Road Comm., E. B. Carskadon, Sec., Charleston, let contract to Harry Hatfield, Barboursville, \$23,293, for 6 mi. grading, draining, stone base, Chapmanville-Big Creek road.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—J. B. McCrary Co., Atlanta, Ga., has contract at \$17,319 for sanitary sewers in Monte Sano Survey, \$2494 for sewers Sixteenth Alley, Acipco Park, \$3681 for Ave. N. Ensley, and \$6984 for Arden Park sewer.

Fla., Lake City—Noel-Topping Co., 2330 Fifth Ave., S., St. Petersburg, has contract at \$68,000 for sewer disposal plant and sewers.

Fla., Miami Beach—See Roads, Streets, Paving.

Fla., Palm Beach—Town having plans prepared for interceptor sewers; E. H. Allen, Local Engr.; W. DeWitt Vosbury, Cons. Engr. Camden, N. J.; soon call for bids. 4-11

La., New Orleans—Sewerage and Water Bd., reported, received following low bids; for sewer improvements; extension to drainage station building, No. 1, John Ries, New Orleans Bk. Bldg., at \$153,425, for contract 102-D; John B. Mooney, Balter Bldg., at \$215,000 for contract 100-3, Miro St. sewer sub main; J. B. McCrary Co., Atlanta, Ga., for contract No. 101-S, Edgewood-Gentilly main sewer; Globe Construction Co., Louisiana Bldg., at \$78,000 for contract 102-S, laying 48" c. i. sewer; U. S. Cast Pipe and Foundry Co., American Traders Bk. Bldg., Birmingham, Ala., contract 103-S, furnishing c. i. pipe. 4-11

La., New Orleans—Sewerage and Water Bd., receives bids June 26 for furnishing and laying pipe. See Want Section—Bids Asked.

Md., Baltimore—Bd. of Awards receives bids May 15 for sanitary sewers and storm drains, Sewer Dists. H-9, 1-7 and J-S. See Want Section—Bids Asked.

Miss., Clinton—See Roads, Streets, Paving.

Mo., Joplin—See Roads, Streets, Paving.

Mo., Deepwater—City, reported, plans \$65,000 sewage disposal plant; W. B. Rollins & Co., Engrs., Ry. Exchange Bldg., Kansas City.

Mo., St. Joseph—City soon receive bids for sewers in Hyde Park, Krug Park Sewer Dist., and Whitehead sanitary sewer.

N. C., Concord—Barger Brothers, Mooresville, reported, has contract at \$20,955 for disposal plant.

Okla., Oklahoma City—Earl W. Baker & Co., Perrine Bldg., Oklahoma City, reported, low bidder for storm sewers in Western Ave., S. 44th St. and Shields Blvd.

Tex., Austin—City soon call for bids for storm sewers on Pederenales St., State St., etc.; H. R. F. Helland, Cons. Engr.

Tex., Wichita Falls—City, W. B. Ward, Pur. Agt., reported, let contract to W. S. Dickey Clay Mfg. Co., 200 New York Life Bldg., Kansas City, Mo., for sewer pipe; will soon let contract for c. i. pipe.

W. Va., McMechen—See Roads, Streets, Paving.

Telephone Systems

Mo., St. Joseph—Southwestern Bell Telephone Co., I. R. Timlin, Archt., Telephone Bldg., St. Louis, advises, "No work done on plans for proposed main building, expect to have plans and specifications completed by Nov. or Dec., 1929." 5-2

S. C., Simpsonville—John Givens, Fountain Inn, acquired telephone system, owned and operated by Verner Jones.

Tenn., Chattanooga—Chattanooga Radio Co., Earl Winger, 615 Market St., let contract to Ralph Cameron, 89 Alta Vista Sts., for radio station, WDOD; install high-powered transmitter; Spanish type, brick, stucco, tile; antenna to be supported by two 100-ft. steel towers; to be operation about June 1.

Tenn., Kingsport—Inter-Mountain Telephone Co., Bristol, completing plans for building, Commerce St.; 100x50 ft.; building and equipment cost \$75,000.

Tenn., Knoxville—Southern Bell Telephone & Telegraph Co., Inc., Atlanta, Ga., purchased equipment for central office building, Broadway and Magnolia Ave., through Western Electric Co., 195 Broadway, New York. 5-2

Tex., Austin—Milam Radio Corp., D. W. English, erecting towers for \$20,000 radio station at Heierman Industries.

Va., Danville—Chesapeake & Potomac Telephone Co. of Virginia, Richmond, expend \$20,000 extending line, here to Milton, N. C.

Va., Mechanicsville—Larus & Bro. Co., Inc., Richmond, owners and operators of radio station, WRVA, C. T. Lucv, Mgr. Radio Dept., let contract to Wise Granite & Construction Co., Richmond, for constructing 5000-watt transmitting station; Western Electric Co., 195 Broadway, New York, furnish transmitting station; U. S. Wind Engine & Pump Co., Batavia, Ill., towers; electrical installation contract not yet let; Marcellus E. Wright, Archt., American Natl. Bk. Bldg., Richmond.

Va., Richmond—Chesapeake & Potomac Telephone Co. of Virginia, C. F. Cross, Mgr., authorized improvements costing \$35,000, including additional equipment for long distance calls, replacing storage battery plates in Randolph central office and extension of underground cable and conduit along Richmond-Petersburg Hwy.

Textile Mills.

Ala., Anniston—H. K. Regar & Sons, Inc.,

chartered; H. K. and H. Severn Regar; reported, acquired properties formerly operated by Cadet Knitting Mills; install additional machinery.

Ala., Fort Payne—Chamber of Commerce, L. V. Curtis, Pres., reported, negotiating with outside capitalists for establishment of cotton mill.

Ga., Rockmart—A. K. Adams & Co., 542 Plum St., N. W., Atlanta, has building contract for Goodyear Tire & Rubber Co.'s \$5,000,000 mill; Virginia Bridge & Iron Co., Roanoke, Va., for struc. steel; mill village of 400 houses, to Batson-Cook Co., West Point; Robert & Co., Inc., Engrs., Bona Allen Bldg., Atlanta. 4-25

Ga., West Point—Batson, Cook Co., West Point, has contract for 5 story warehouse for Lanett Bleachery and Dye Works; 60x125 ft.; also erect addition to boiler house; J. E. Sirrine & Co., Engrs., Greenville, S. C.

La., New Orleans—Gold Seal Hosiery Co., Inc., E. B. Ferguson, 523 Iberville St., reported, acquired Floradel Knitting Mill; will operate.

Miss., Gulfport—Following contractors estimating on Walcott & Campbell Spinning Co.'s mill, bids opened May 15: Sam N. Hodges Co., 579 Peachtree St., N. E.; Wagar & Co., Inc., Norris Bldg.; C. A. D. Bayley & Co., Inc., Red Rock Bldg.; A. K. Adams & Co., 542 Plum St., N. W., all Atlanta, Ga.; Batson-Cook Co., West Point Iron Works, both West Point; T. C. Thompson & Bros., 609 Smith St., Charlotte, N. C.; A. C. Samford, 301 Washington Ave., Montgomery, Ala.; Doullut & Ewin, Inc., Mesher Bldg., Mobile, Ala.; Beckelheimer & Small; Z. Bailey, Zeigenfeld & Co.; F. T. Rea, all of Gulfport; G. F. Favrot & Co., Balter Bldg., New Orleans, La.; Gauger-Korsmo Co., Fidelity Bk. Bldg.; Wessell Construction Co., 388 N. Front St., both Memphis, Tenn. 5-2

N. C., Durham—Emory & Seagrove Hosiery Mill, reported, plans addition to mill.

N. C., Lexington—James G. Johnson Co., 240 Madison Ave., New York, reported, acquired silk plant of Grimes Fabric Co.

N. C., Lexington—Johnson Silk Mills, Inc., capital \$100,000, chartered; Edward S. Johnson, Anthony J. Downey, New York.

N. C., Roaring River—Gordon Mills, Inc., J. R. Hix, Sec., acquired Yaddin Cotton Mills; no new buildings contemplated at present time. 4-18

N. C., Rockingham—W. B. Cole, Rockingham, reported, acquired Leak Cotton Mills.

N. C., Roxboro—Collins-Aikman Co., 51st St. and Columbia Ave., Philadelphia, Pa., reported, let contract to Carolina Steel & Iron Co., Greensboro, N. C., for 375 tons of struc. steel shapes for weaving shed. 12-13

N. C., Statesville—Statesville Cotton Mills, Inc., has plans by Geo. C. Bell, Engr., Piedmont Bldg., Charlotte, for \$75,000 mill addition; 1 story and basement; brick walls, struc. steel, tar and gravel roof, wood and conc. floors. 4-26

N. C., Yadkin—Following contractors estimating on 50,000 mill addition for North Carolina Finishing Co.; Fiske-Carter Const. Co., Masonic Temple Bldg.; Potter & Shackelford, Allen Bldg.; Gallivan Building Co., Gallivan Bldg.; Morris McKoy Building Co., Finlay Bldg., all of Greenville, S. C.; L. S. Bradshaw, Salisbury; W. A. Cray & Sons, 1226 Sumter St., Columbia, S. C.; J. A. Gardner, 211½ N. Tryon St., Charlotte; Burns-Hammonds Const. Co., Jefferson Bldg., Greensboro; Ward & Thomson, Lexington; open bids May 6; J. E. Sirrine & Co., Engrs., Greenville, S. C.

S. C., Edgefield—See Land Development.

S. C., Greenwood—Greenwood Cotton Mill has plans by J. E. Sirrine & Co., Engrs., Greenville, for addition to cotton mill, conc. footings, brick walls, tar and gravel roof.

S. C., Rock Hill—Lockwood Green Engineers, Inc., Charlotte, N. C., receives bids May 14 a tAndrew Jackson Hotel, Rock Hill, for \$2,000,000 bleachery for Rock Hill Printing and Finishing Co., to be connected with building already purchased. 3-14

S. C., Spartanburg—J. M. Clayton Co., 63 Cone St., N. W., Atlanta, Ga., has contract for complete light and power installation in weave mill of Drayton Mills; mill is being erected under supervision of Lockwood Greene Engineers, 190 E. 42nd St., New York City, and Spartanburg. 3-7

Tenn., Knoxville—Brookside Mills expend \$50,000 for installation of boilers.

Va.-Tenn., Bristol—Mutual Thread Co., 17 W. 17th St., New York City, reported, has site of 7½ acres for thread manufacturing plant. 4-4

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ark., Bearden—City plans installing water and sewer system.

Ala., Montgomery—J. B. McCrary Co., Atlanta, Ga., reported, low bidder for construction 4,000,000 gal. capacity reservoir, rein. conc., 110 x 290 ft.; install 3 Venturi meters; manufactured by Builders Iron Foundry, Providence, R. I., contract for wells to be let later.

Fla., Hollywood—City plans \$220,000 water works, including wells in Hollywood section of city, pumping plant of 2,000,000 gals., filtration plant and standpipe, 12-in. main, etc., Gilbert C. White Co., Engrs., 406½ Main St., Durham, N. C., will soon call for bids. 9-20

Fla., Key West—City, reported, granted franchise to J. S. Merrill and associates, to supply city with water.

Fla., St. Augustine—Pinellas Water Co. incorporated; U. C. Barrett, K. E. Fenderson.

La., St. Joseph—City voted \$30,000 water works bonds.

Md., Easton—Easton Utilities Comm., John S. McDaniel, Pres., receives bids May 20 for water works improvement. See Want Section—Bids Asked.

Md., Salisbury—City, F. H. Dryden, Engr., expend \$11,000 for water works extension.

Mo., Wellsville—Will F. Plummer, Inc., Union Natl. Bk. Bldg., Springfield, has contract for water works system, including dam and lake of 32,000,000 gal. capacity, filtration plant, elevated steel reservoir; cost \$85,000.

Okla., Britton—City, D. A. Riley, Clk., plans \$16,000 water works extension.

Okla., Purcell—Midike Supply Co., 100 E. Main St., reported, has contract for galv. water pipe; rejected bids on tank and tower.

Okla., Warrika—City, reported, plans \$65,000 water works improvements; E. W. Gantt & Co., Engrs., 1116 W. Main St., Oklahoma City.

Tex., Del Rio—W. C. Perry has contract for 2 tanks, 1,000,000 gal. capacity each; rein. conc., 78 ft. in diam.; W. E. Simpson Co., Engr., Natl. Bk. of Commerce, San Antonio.

Tex., Graham—Central Foundry Co., Praetorian Bldg., has contract for 600 ft. of 16-in. c. i. pipe for water line.

Tex., Groveton—City votes June 4 on \$23,000 water bonds.

Tex., Ingleside—Ingleside Water Co., incorporated; W. M. and A. M. Truax.

Tex., Linden—City install water system.

Tex., Mt. Calm—Wilson & Seward, Corsicana, has contract for \$30,000 water works.

Tex., San Saba—City plans \$35,000 water works improvements; N. C. Walker, Mayor. 5-2

Tex., Turkey—City construct 200,000 gal. reservoir.

Tex., Vernon—City, S. H. Hall, Sec., receives bids May 14 for water tower, 250,000 to 500,000 gal. capacity. 4-18

Woodworking Plants

Mo., St. Louis—Atlas Plywood Co. incorporated; A. A. Jekel, Kirkwood; A. H. Breitenbach, Title Guaranty Bldg., St. Louis.

Va., Martinsville—Gravely Novelty Furniture Co., Inc., R. P. Gravely, Pres., expending \$25,000 to \$35,000 for additional buildings, machinery, etc., for plant; brick, steel; let contract to local contractor, who will supervise work; all materials to be purchased by company; recently incorrectly noted under Danville. 4-4

FIRE DAMAGE

Ark., Newport—Rooming house, Laurel and Second Sts., owned by Mrs. Z. A. Stallings and Judge J. F. Parish; loss \$10,000.

Ga., Brunswick—Portion of Brunswick Canning Co.'s plant; loss \$40,000.

Ky., Louisville—Woodworking plant of Tobe Grainer Co., 714 Brent St.; loss \$50,000.

Ky., Louisville—W. Pratt Dale's residence, Upper River Rd. near Blankenbaker Station; loss \$10,000. Address Mr. Dale at Lincoln Bldg.

La., New Orleans—General Box Corp.'s plant; loss \$250,000.

Md., Frederick—Sam'l. C. Free's farmhouse near Creagerstown.

Miss., Indianola—Garrard Bldg.; loss \$10,000.

Miss., Laurel—Strand Theater; loss \$20,000.

Miss., Lexie—H. W. Smith's store; loss \$12,000.

Miss., Newton—Newton High School; loss \$100,000.

Miss., Vicksburg—Leo L. Kilpatrick's garage.

Mo., Kansas City—Riverside Mining Co.'s lead mill; loss \$40,000.

N. C., Highlands—Clubhouse recently completed by Bobby Jones and associates, Atlanta, Ga.; loss \$50,000.

Okla., Muskogee—Scales Bldg., occupied in part by Caldwell Furniture store; Midway Hotel; Ohio Bldg., owned by W. C. Correy; A. H. Sharam's building; loss \$150,000.

Tex., Lufkin—Cafe, rooming house and recreation club owned by Treadwell Estate; loss \$10,000.

Tex., Temple—Portion of Texas Power and Light Co.'s engineering department division repair shop, Fifth St. and Ave. A; loss \$15,000; main office Dallas.

Tex., Tulsa—Wholesale plant of Magnolia Petroleum Co., Dallas, and portion of wholesale plant of Gulf Production Co., Houston.

Damaged by Storm

Va., Rye Cove—School building; address School Bld.

Va., Woodville—High school building; address School Bld.

W. Va., Morgantown—Morgantown Country Club's \$200,000 clubhouse.

BUILDING NEWS

BUILDINGS PROPOSED

BUILDING CONTRACTS AWARDED

Association and Fraternal

Fla., Lake Worth—Benevolent Protective Order of Elks erect clubhouse, Lake Ave., after plans by Volk & Maass; bids by invitation.

S. C., Dillon—Ancient Free and Accepted Masons erect 2-story bldg.; stores on first floor, lodge rooms above.

Tex., Brownwood—Brownwood Masonic Bodies, James Ming, Sec., plans \$35,000 to \$40,000 temple, 109 E. Adams St.; probably brick, 2 stories, 47x192 ft.; architect not selected. See Want Section—Building Material and Equipment. 4-25

Bank and Office

Ala., Mobile—First National Bank, D. P. Bestor, Pres., receives bids until May 17 for 7-story addition to bldg.; contract for foundation and basement lately noted let; brick, stone trim, struct. steel and iron, conc. vault, terra cotta, marble, waterproofing, orna. iron work, steel sash, sheet metal work, fire doors, ventilators, comp. roof, 3 passenger elevators, mastic and tile floors, mail chute, revolving doors; basement finish floors and plastering and finishing work in banking room not included in gen. contract; Geo. B. Rogers, Archt., Van Antwerp Bldg., Mobile; bank and vault fixtures design, St. Louis Bank Building and Equipment Co., 900 Sidney St., St. Louis, Mo.; following contractors estimating: Doullut & Ewin, Inc., Meaher Bldg.; R. E. Sundberg Construction Co., 307 N. Royal St.; Owen Construction Co., Inc., 104 S. Lawrence St., all Mobile; Foster & Creighton Co., Protective Life Bldg., Birmingham, Ala.; Wessell Construction Co., 388 N. Front St., Memphis, Tenn.; O. M. Gwin Construction Co., Union Indemnity Bldg., New Orleans, La. 4-4

Ark., Jonesboro—Chas. D. Frierson erect \$22,000 office bldg., Church St., after plans by E. J. Wolpert; brick and terra cotta, 2 stories, 30x90 ft., steam heat. 4-25

D. C., Washington—National Headquarters of American Institute of Architects, Herrick Hammond, Pres., Chicago, Ill., reported, plans \$400,000 library and administration bldg., 18th St. and New York Ave.; plans by D. Everett Waid, Chmn., Bldg. Comm., and Chas. A. Platt, 1 Madison Ave., both New York.

Fla., Miami—City National Bank, Richard Saunders, Chmn., Bldg. Comm., remodel bldg., Flagler St.; provide balcony for stock exchange; remodel entrance; comp. roof; terrazzo floors, marble and quarry stone columns, skylights; \$50,000; R. DeC. Weakley, Archt., 210 E. Flagler St.; soon to let contract.

Ga., Atlanta—Retail Credit Co., Cator Woolford, 90 Fairlie St., probably have plans ready about May 10 for 6 additional stories to 3-story office bldg.; rein. conc. and brick, stone trim, conc. and terrazzo floors, built-up roof, steam heat; Morgan, Dillon & Lewis, Archts., Grant Bldg. 2-21

Ky., Ashland—Third National Bank erect bank bldg., site present structure; 2 stories.

La., New Orleans—Theard & Matthews, Archts., Balter Bldg., receive bids until May 15 for fireproof Medical Arts Bldg., Prytania and Delachaise Sts.; separate bids on heating and plumbing; \$250,000, steel, brick, stone trim, 5 stories, 90x126 ft., pile foundation, struct. steel, orna. iron, tile floors, marble, 2 high speed passenger elevators, compressed air; stores on first floor, about 6000 sq. ft. rentable space on each of upper floors; 35-car garage in rear; structure by local syndicate; following contractors estimating: Geo. J. Glover Co., Inc., Whitney Bk. Bldg.; O. M. Gwin Construction Co., Union Indemnity Bldg.; Gervais F. Favrot, Balter Bldg.; Underwood Contracting Corp., Lionel F. Favrot, both Louisiana Bldg.; J. A. Petty & Sons, Inc., Godchaux Bldg.; Reilly-Huckstahl, Inc., 423 Carondelet St.; J. V. & R. T. Burkes, New Orleans Bk. Bldg.; Thos. H. Brockman, Canal Bk. Bldg.; Geary-Oakes Co., Q. & C. Bldg.; J. A. O'Brien, La. Bldg. 1-17

Md., Baltimore—Mackubin, Goodrich & Co., 111 E. Redwood St., purchased old Federal Reserve Bank bldg., South and Redwood Sts.; remodel interior; add additional stories; Smith & May, Archts., Calvert Bldg.; Consolidated Engineering Co., Inc., 20 E. Franklin St., probable contractors.

Miss., Jackson—Mississippi Education Assn. lets contract June 4 for office bldg., N. President St.; rein. conc., brick and cast stone, 1 story, 45x60 ft., conc. floors, tile and built-up roof, hot air heat, \$12,500; J. M. Spain, Archt., Millsaps Bldg., completing plans.

Miss., Meridian—Threefoot Realty Co., Louis M. Threefoot, member, 1212 Twenty-second Ave., having plans drawn by Claude H. Lindsley, Archt., Lamar Life Bldg., Jackson, for \$750,000 to \$1,000,000 Threefoot Bldg., 22nd and Sixth St.; ready for bids about 30 days; fireproof, pressed brick, conc. frame, stone trim, 14 stories, L shape, 70x120 ft., 3 high-speed elevators. 4-18

Mo., St. Louis—Clarence E. Turley, Mgr., Victoria Bldg., reported, interested in plans for 35-story office bldg., Locust St. at Eighth or Ninth St.

Tenn., Jackson—Security National Bank remodel bank bldg., Liberty and Main Sts., for quarters.

Tenn., Knoxville—Fidelity Trust Co. remodel McClung Bldg.; rebuild front and basement; Bauman & Bauman, Archts., 813½ Market St., Knoxville; Robt. G. Lose, Engr., Forsyth Bldg., Atlanta, Ga. 2-7

Tenn., Murfreesboro—Murfreesboro Bank & Trust Co., R. T. Bell, Jr., Pres., considers remodeling building.

Tex., San Antonio—City Central Bank & Trust Co., Houston and Navarro Sts., remodel first 2 floors, mezzanine and basement of bldg.; new bank fixtures, elevators, vault; install partitions; Robt. B. Kelly, Archt., Milam Bldg.

Churches

Ala., Montgomery—Dexter Avenue Methodist Church, Dr. J. E. Northcutt, Pastor, plans to erect Sunday school, install pipe organ, heating plant, new church furniture, etc.; \$100,000.

Ark., Blytheville—Temple Israel remodel bldg. Address The Rabbi.

Ark.-Tex., Texarkana—Baptist Church, Texarkana, Ark., plans \$75,000 building; work in fall or winter. Address the Pastor.

D. C., Washington—Western Presbyterian Church, Rev. J. Harvey Dunham, Pastor, 2109 G St., N. W., having preliminary plans drawn by N. Hulme, Archt., 1524 Chestnut St., Philadelphia, Pa., for \$155,000 church and Sunday school, H St. near 19th St.; stone, 6-14 story.

Miss., Laurel—First Baptist Church, W. T. Scott, Chmn., Organ Comm., install pipe organ.

Mo., Springfield—Tabernacle Presbyterian Church, Rev. W. H. Butler, Pastor, selected G. F. Reed, Woodruff Bldg., as architect to remodel and erect addition to church; \$40,000; brick, 2 stories.

Okla., Goitry—Congregational Church rebuild church burned at \$25,000 loss. Address The Pastor.

Tenn., Gallatin—Roman Catholic Church, care Robt. Guthrie, erect brick veneer bldg. after plans by Regan & Weller, Archts., Derron Bldg., Memphis; 1 story and basement, 75x44 ft., conc. foundation, obscure and art glass, steam heat.

Tenn., Knoxville—Fifth Avenue Presbyterian Church plans to remodel and redecorate auditorium. Address The Pastor.

Tenn., Memphis—Hollywood Christian Church, Rev. J. E. Mellwood, Pastor, erect \$10,000 bldg., Bryan St.; brick, 1 story, 40x50 ft., comp. roof, steam heat; Victor Smith, Archt., 1596 Vinton Ave.

Tenn., Nashville—Gordon Memorial M. E. Church, Rev. H. P. Gordon, Pastor, erect brick, Breake block, conc. and stone bldg.; 1 story, basement and balcony, 70 x 43 ft. with 83x28-ft. wing; McKissack & McKissack, Archts., Morris Memorial Bldg.

Tex., Austin—Wesley M. E. Church Colored, receives bids until May 15 for brick and stone bldg., Hackberry and San Bernard Sts.; 1 story, balcony and basement, rein. conc. foundation, wood floors, asbestos shingle roof; H. P. Kuehne, Archt., Littlefield Bldg.

Tex., Dallas—Baptist Church, Oak Cliff, organized with Rev. J. T. Bell as pastor; purchase site, Pierce St. section, and erect building.

Tex., Memphis—First Baptist Church plans to start work by June on \$35,000 annex; 2 stories and basement; connected with present structure by passageways; E. F. Rittenberry, Archt., Fisk Medical & Professional Bldg., Amarillo.

Tex., San Antonio—Baptist Temple, Rev. Jesse L. Yelvington, Pastor, has sketches by Will N. Noonan, Co., Builders Exch. Bldg., for \$50,000 Sunday school, Drexel Ave. and Gevers St.; brick and conc., 3 stories and basement.

Tex., San Antonio—North Side Baptist Church has low bid at \$26,743 from T. M. Cowan, 115 Clover St., for church and Sunday school, Hollycrest; Beverly W. Spillman & Beverly W. Spillman, Jr., Archts., Engrs., Alamo Bk. Bldg.

Tex., Wichita Falls—South Side Baptist Church probably soon start work on bldg.; auditorium seat 1000; Sunday school with 58 classrooms; Warren Roberts, Archt.

City and County

Ark., Fayetteville—Washington County, J. Lona Slaughter, County Judge, remodel courthouse.

Ark., Forrest City—Board of Aldermen, Jas. L. Scott, Mayor, will call election on bonds for city hall and fire dept. building.

Ark., Lewisville—Lafayette County, N. D. Harrell, County Judge, votes at special election May 11 on bonds to remodel courthouse and erect jail; latter brick and conc., 2 stories; \$75,000.

Ark., Pine Bluff—City, W. L. Toney, Mayor, repair city hall.

Ark., Rogers—City, J. H. Rude, Mayor, receives bids May 21 for fireproof city hall; brick and conc., cut stone trim, 2 stories and basement, conc. and pine floors, comp. built-up roof; A. O. Clark, Archt.

D. C., Washington—District Engineer Dept., Roland M. Brennan, Ch. Clk., opens bids May 10 for refrigeration equipment and individual stands, Western Market; \$25,000.

Miss., Vicksburg—Warren County Bd. of Supvrs., Joe Garrett, Chmn., Bldg. Comm., 2501 Drummond St., votes May 21 on \$75,000 jail bonds; tentative plans by W. A. Stanton, Archt., First Natl. Bk. Bldg.; fireproof, brick, 56x80 ft., 2 stories and basement.

Mo., Chillicothe—Livingston County Bd. of Commrs., F. W. Cornue, Clk., Courthouse, considers erecting \$40,000 library.

Mo., Monett—City, J. M. Russell, Mayor, receives bids until May 13 to wreck present city hall and erect new structure; \$50,000; gre. dept. library; Earl Hawkins, Archt., McDaniel Bldg., Springfield; plans from City Clerk.

Mo., Vandalia—City, Dr. A. G. Beshears, Mayor, considers erecting \$25,000 city hall; brick, 2 stories.

Dwellings

Ala., Anniston—H. S. Regar erect \$20,000 residence, Sunset Heights; stucco and tile, 2 stories, tile roof; Chas. H. McCauley, Archt., Jackson Bldg., Birmingham; bids in.

Ala., Birmingham—R. G. Stewart, care Turner & Slater, Archts., Martin Bldg., about ready for bids on native stone residence, Mt. Brooke Estates; 2 stories, clay tile roof, vapor steam heat.

Ala., Birmingham—Will Monjit, 331 Third St., erect \$10,000 residence, Bush Hills; brick veneer, 2 stories, 32x51 ft., furnace heat, comp. roof; Chester W. Wynn, Archt., Martin Bldg.; plans about May 10.

Ala., Tuscaloosa—C. B. Grimes let contract to Skinner-Maxwell Building Co. for hollow tile and stucco residence; 2 stories, tile floors and terrace, 3 baths, comp. roof, steam heat; Miller & Martin, Archts., Title Guar. Bldg., Birmingham.

Ark., El Dorado—Col. T. H. Barton, care Kolben, Hunter & Boyd, Archts., Armstrong Bldg., erect \$10,000 frame and stucco residence; 1 story, 69x40 ft., oak floors, wood shingle roof, interior tile, metal lath.

Ark., Forrest City—M. McDaniel erect \$25,000 residence; brick and conc., 2 stories, 9 rooms, oak floors, conc. foundation, tile roof and bath.

Fla., Coconut Grove, Miami—E. M. Trimble, Rochester, N. Y., opens bids about July 1 for cement block and stucco residence; 2 stories, 40 x 90 ft., Spanish tile and oak floors, conc. foundation, Cuban tile roof; Wade & Oemler, Archts., Exchange Bldg., Miami.

Fla., Miami Beach—Morris Vehon, 1221 Astor St., Chicago, Ill.; August Gelger, Archt., 58 S. E. Seventh St., Miami, advises project deferred until next year.

Fla., Palm Beach—Wm. Ruland, Mamaroneck, N. Y., probably complete Moorish type residence, Wells Rd. and Bradley Place, this fall; first unit completed; Chas. Snyder, Archt.

Ga., Atlanta—T. Taylor Peake, 916 Rose-dale Rd., N. E., let contract for \$12,000 residence to Fred P. Coleman, 35 W. Paces Ferry Rd.; brick veneer, 1 story and basement, hardwood floors, comp. shingle roof; Edouard Clerk, Archt., Henry Grady Bldg.

Ga., Augusta—Dr. A. J. Kilpatrick, Seventh and Greene Sts., remodel and erect addition to residence; frame, 2 stories and basement; \$20,000; Scroggs & Ewing, Archts., S. F. C. Bldg.

Ga., Cartersville—L. J. Bacus has low bid from W. P. Francis, Luckie St., for residence; R. Kennon Perry, Archt., Wynne-Claughton Bldg., both Atlanta.

Ky., Louisville—Dr. F. Meder, 1822 East Pkwy., erect residence, 519 Alta Vista; brick and tile.

Ky., Louisville—J. T. Dorsey, 2732 Virginia St., erect 3 dwellings, 721-33 S. 44th St.; \$15,000.

La., New Orleans—John F. Clark, Jr., Canal Bk. Bldg., may erect residence, Iona St., Metairie Club Gardens; architect not selected.

La., New Orleans—Vincent Milazzo erect double residence, 3315 Dumaine St.; Geo. J. Lupo, Contr., 4925 S. Tonti St.

La., New Orleans—Geo. M. Upton, 2006 Jefferson Ave., has low bid at \$23,196 from J. A. Haase, Jr., 916 Union St., for residence; Lockett & Chachere, Archts., Balter Bldg.

La., Opelousas—Jim Tom Hamilton erect 2 or 3 additional brick dwellings adjoining dwelling under constr., N. Fifth St.

La., Shreveport—Nathan Meyer, 217 Lake St., erect frame residence; 1½ stories and basement; Seymour Van Os, Archt., City Bk. Bldg.; bids in.

La., Shreveport—F. L. Reynolds, 339 Dal-elle St., erect face brick veneer residence; 1 story, 7 rooms, oak floors, shingle roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.; plans complete.

Md., Baltimore—E. J. McGraw, 2306 Mt. Royal Terrace, erect residence, St. Alban's Way near Paddington Rd.

Md., Baltimore—Robinson & Slagle, Inc., American Tr. Bldg., erect 3 brick dwellings, 120-33 Tuscany Rd.; 2½ stories; \$14,000.

Md., Frederick—Dr. R. M. Rau erect \$35,000 residence, Rockwell Terrace.

Miss., Aberdeen—Kimmel Bros. erect 2 bungalows; \$12,000.

Miss., Meridian—Sam Miller and C. J. Lenahan, care Southern Building Material Co., 22nd Ave., erect brick veneer residence, 41st Ave. and Pauldin St.; 1 story and basement, comp. roof.

Miss., New Albany—Dr. E. Hays Wesson erect brick veneer residence; 2 stories and basement, about 48x46 ft., oak floors, tile bath, comp. single roof, hot water heat; Estes W. Mann, Archt., Cotton Exch. Bldg., Memphis, Tenn.; plans complete.

Miss., Oxford—Dr. A. H. Little erect \$13,000 residence; brick and stucco, 1 story and basement, 67x40 ft., oak floors, comp. roof, steam heat; Polk W. Agee, Archt., Fidelity Bk. Bldg., Memphis, Tenn.

Miss., Sherard—Holmes Sherid erect brick veneer residence; 1 story and basement, 70x46 ft., hardwood floors, tile bath, comp. shingle roof; Estes W. Mann, Archt., Cotton Exch. Bldg., Memphis, Tenn.

Mo., Bowling Green—W. E. Klappish erect \$20,000 residence; brick, 1½ stories; Norman Dixon, Archt.

Mo., Clayton, St. Louis—Fred A. Arnstein, care Chas. R. Greene, Archt., Buder Bldg., erect brick residence, Alexander Drive, Ellenwood; 2½ stories and basement, 41x37 ft., tile baths, terrazzo and hardwood floors, slate roof; Chas. R. Greene, Archt., Buder Bldg.

Mo., Hollister—M. G. Skaggs, Santa Rosa, Calif., remodel stone lodge on Clemens game preserve, 18 miles from Hollister, for summer residence; \$25,000.

Mo., St. Louis—F. A. Scheperle, 5330 Longborough St., erect 3 brick dwellings, 5916-20-22 Marwinette St.; 2 stories, 25x29 ft., comp. roofs, hot air heat; \$10,000.

Mo., University City, St. Louis—Edw. J. O'Brien, Chemical Bldg., erect brick residence, 7372 Northmoor Drive; 2 stories and basement, 34 x 27 ft.; Alfred H. Norrish, Archt., 11 Dartford Ave.; bids in.

Mo., University City, St. Louis—H. P. Burns, 3909 Maffitt Ave., erect \$10,000 brick residence, Melrose Ave.; 1½ stories and basement, 34 x 24 ft., hardwood floors, tile bath, asphalt shingle roof, hot water heat; O. J. Popp, Archt., Arcade Bldg.

N. C., Asheville—D. L. Moyd erect \$10,000 stucco and hollow tile residence, 136 Vermont Ave.; 1 story and basement, 42x38 ft., 6 rooms, steam heat; owner builds.

N. C., Greensboro—J. H. Adams erect \$200,000 residence; brick veneer, stone trim, interior marble and tile work, steam heat; Northrup & O'Brien, Archts., Starbuck Bldg., Winston-Salem; plans ready about May 25.

N. C., Swannanoa—Beacon Manufacturing Co., Frank E. Laycock, Supt., erect 42 mill dwellings; frame, wood floors; Geo. B. Barker, Constr. Engr.

Okla., Tulsa—Roy P. Poe, erect \$30,000 residence; brick veneer, 2 stories and basement, 35 x 70 ft.; Frank Olston, Archt., both Mid-Continent Bldg.; bids in.

Okla., Tulsa—M. W. Leaw, erect \$15,000 duplex, 1616 S. Louis Ave.

Tenn., Dyersburg—S. W. Blivens erect brick and stucco residence; 1 story and basement, 55x40 ft., oak floors, comp. shingle roof; Geo. Mahan, Jr., Archt., Amer. Tr. Bldg., Memphis.

Tenn., Dyersburg—U. Weakley erect \$25,000 brick veneer, stucco and half timber residence; 2 stories and basement, about 60 x 60 ft., oak floors, 2 tile baths, clay tile roof, hot water heat, garage and servants' quarters; C. J. Pillows, Archt.

Tenn., Memphis—P. K. Gaffard, Box 11, Wynne, Ark., considers erecting 1 story and basement brick or frame residence, Broad St.

Tenn., Memphis—W. E. Graves, 988 Peabody Ave., plans 2 duplexes, 2166-70 Washington Ave.; brick, 2 stories and basement, 35x56 ft., oak floors, comp. shingle roof, hot water heat; L. G. Carlisle, Archt., Medical Arts Bldg.

Tenn., Memphis—J. G. Nowlin, 1976 Snowden Ave., has contract for Colonial residence; brick veneer, 2 stories and basement, 8 rooms, oak floors, tile bath, steam heat.

Tenn., Memphis—R. H. Lohmar, 334 N. McLean Blvd., erect \$22,000 residence, Walnut Grove; brick, 2 stories and basement, tile roof, 2 tile baths, garage and servants' quarters; R. L. Seig, Archt., Fidelity Bk. Bldg.; drawing plans.

Tenn., Memphis—Mrs. Norman Monaghan, 1489 Goodbar Ave., remodel residence; 2 tile baths, tile roof.

Tenn., Memphis—South Memphis Land Co., Cotton Exch. Bldg. plans 12 brick veneer dwellings, Long View Heights; 1 story and basement, 25 x 35 ft., oak floors, tile bath, comp. shingle roof, hot water heat, garage.

Tenn., Memphis—R. A. Calhoun, 1891 S. Parkway, East, considers erecting 2 duplexes, Central Ave. near Mansfield St.; brick veneer, 2 stories and basement, tile baths, oak floors, comp. or tile roof, steam heat; \$32,000.

Tenn., Memphis—Wm. Cole Early, 1535 Eastmoreland Ave., considers erecting \$20,000 residence, Chickasaw Gardens; brick veneer, 2 stories and basement, oak floors, tile bath, steam heat, garage and servants' quarters.

Tenn., Memphis—G. W. Hargett, 479 N. McNeil St., erect \$20,000 residence, Chickasaw Gardens; brick veneer, 2 stories and basement, oak floors, tile bath, steam heat, garage and servants' quarters; Geo. Mahan, Jr., Archt., City Bk. Bldg.; plans complete.

Tenn., Memphis—F. C. Dorider, Hillsboro Rd., erect stone veneer residence; 1 story and basement, 65x47 ft.; Welby N. Pugin, Archt., 149 Sixth Ave., North; bids in.

Tenn., Sewanne — Mrs. Henry Conkling, erect \$40,000 semi-fireproof stone residence; Tisdale, Stone & Pinson, Archts., Ind. Life Bldg., Nashville; preliminary plans.

Tex., Fort Worth—R. L. Green erect \$10,000 duplex, 2900 block Princeton St.

Tex., Houston—Pleasant F. Graves, 1118 Sul Ross Ave., remodel residence; J. W. Northrop, Jr., Archt., Kirby Bldg.

Tex., Houston—J. E. Allen erect 2 brick veneer dwellings, 1806 Oakdale and 2812 Truxillo Sts.; 10 rooms; \$12,000.

Tex., Houston — R. W. Peckham, 3522 Washington St., erect 5 brick veneer dwellings, 1700 block Brun, 2625 Persa and 2611 Reneau Sts.; 6 rooms; \$23,000.

Tex., Houston—Following plan residence, Southwood; Dr. H. L. A. Farrell, First Natl. Bk. Bldg.; John Walker; W. E. Barrow, 1707 Arnold St.; Howard S. Brainin, Pres., Brainin & Winston, State Natl. Bk. Bldg., W. F. Cavellfield, 2135 Harold St.

Tex., Houston—Miss J. Sadler, 1216 Bartlett St., erect \$10,000 residence, 4810 Austin St.; brick veneer, 10 rooms.

Tex., Houston—Delbert D. Daugherty, 2508 Truxillo St., erect \$10,000 duplex, 1929 W. McKinney St.; brick veneer, 10 rooms.

Tex., Mission—N. Doffing erect \$15,000 residence and 11-room land office and clubhouse; brick, 2 stories.

Va., Richmond—D. A. Weatherford, Builders Exch. Bldg., start work at once on 10 dwellings, Westover Hills, as first unit of 30 dwellings; \$100,000; ultimate cost about \$250,000.

Government and State

Fla., Miami—Dade County Bd. of Commrs. receives bids until May 16 at office County Clk., for exposition bldg. and armory, N. W. Seventh Ave.; \$100,000; H. H. Mundy, Archt., 311 N. E. 18th St.

Ga., Fort Benning—Constructing Quartermaster; Lieut. W. M. Allison, Fort Benning, receives bids May 29 for additions to Ward 3 and connecting corridors, \$135,000, and for nurses' quarters, \$65,000; former 3 stories and basement, 139 x 42 ft.; latter 2 stories and basement, 155 x 43 ft.; rein. conc., brick and hollow tile, struct. steel, cast stone trim, Imperial tile roofs, marble toilet partitions, conc., comp. and tile floors, hot water heat.

Md., Baltimore—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., opens bids May 13 for alterations, Room No. 130, Custom House; drawings from Custodian at site or from office supvg. Archt.

N. C., Asheville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., opens bids June 7 for 3-story and basement stone faced post office and courthouse; about 24,500 sq. ft. ground area; about 208x82 ft., granite to first floor line, limestone above, buff brick and stone trim interior court and part of rear elevation, bronze entrances and model cast iron window sashes, terrazzo floors in corridors, 2 stairways from ground floor, elevators, \$650,000; drawings from office Supvg. Archt.

N. C., Fayetteville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., opens bids May 31 for money order division and wire partition, etc., post office; drawings from Custodian at site or from office supvg. Archt.

Okla., Oklahoma City—State Board of Affairs selected Layton, Hicks & Forsyth, Braniff Bldg., as architects for \$500,000 historical-memorial bldg. State Capitol grounds; Jasper Sipes, member, Bldg. Comm., 17 W. Main St.; Edw. P. Boyd, 720 N. Robinson St., elected as Supvg. Archt.

Tex., Dallas—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., has low bid at \$1,022,000 from N. P. Severin Co., 222 W. Adams St., Chicago, Ill., for post office and courthouse; elevators not included.

Va., Fort Humphreys—War Dept. erect 30 sets of n. e. o. quarters, including sewer, water and elect. light connections to Post system; 5 rooms and bath, probably brick face, non-fireproof, slate roofs; Capt. Geo. F. Hobson, Constructing Q. M., Fort Humphreys; probably call for bids within few months.

Hospitals, Sanitariums, Etc.

Ark., Forrest City—Dr. J. A. Bogart considers erecting \$20,000 clinic, Izard and Hill Sts.; brick and conc., 2 stories and basement, conc. and wood floors, comp. roof.

D. C., Washington—Department of Interior, Jos. M. Dixon, First Asst. Sec., receives bids in triplicate until June 18 for 1 medical and surgical bldg., for the St. Elizabeth's Hospital, Anacostia, with connecting corridors, including roads, walks and drainage; also for moving present 1-story contagious bldg. to new site; work includes excavating, rein. conc. constr., hollow tile, brick work, cut stone work, cast stone, marble work, floor and wall tile, terrazzo and linoleum floors, iron work, steel sash and stairs, tile, metal and built-up roofing, roof ventilators, metal lathing, plastering, carpentry, metal weather strips, insect screens, elect. work, elect. elevator, and outside sewer, water, steam and elect. distribution system; separate bids for elevators; drawings from Constr. Div., U. S. Veterans Bureau, Room 764, Arlington Bldg.

Ga., Waycross — Ware County defeated \$250,000 hospital bonds.

Mo., Sealia—Nature's Health Institute has plans completed for 35-room physiotherapy sanitarium, State Fair Blvd.; Colonial type, fireproof; Arthur J. Widmer and associates, St. Louis, architects, 4901 Delmar Ave.

Okla., Beaver—Town voted \$50,000 hospital bonds. Address Town Council.

Va., Norfolk—Director of Public Works, Walter H. Taylor, 3rd, receives bids until May 6 for tubercular bldg., Municipal Hospital, City Home, Princess Anne County; plans from Calrow, Browne & Fitz-Gibbon, Archts., Royster Bldg.

Hotels and Apartments

D. C., Washington—S. M. Biron & Son, 1218 Ninth St., N. W., have permit for \$39,000, 2-story brick apartment, 1201 Euclid St., N. W.

Fla., Sand Lake—Dr. P. Phillips Co. erect hotel for employees; also store and post-office.

Ga., Waycross—G. A. Leitch, Hotel Macon, leased Phoenix Hotel and remodel.

Miss., Greenwood — Weiner Hotel having plans prepared by Hull & Malvaney, Merchants Bk. Bldg., Jackson, for 73x90-ft., brick, stone trim, fireproof, 60-room addition and remodel present building; \$125,000.

Miss., Meridian—C. J. Lonnegan erect \$30,000 brick veneer apartment, 21st Ave. and 12th St.; hardwood floors, comp. roof, steam heat, built-in beds, electric refrigerators; R. C. Springer, Archt., Rosenbaum Bldg.; bids in.

Miss., West Point—Holt Hotel Co., J. M. White, Chmn., Bldg. Comm., has low bid at \$98,900 from Sandquist & Snow of La., Inc., Alexandria, La., for 4-story, brick, steel, stone trim Henry Clay Hotel; heating, \$5440, Palme Heating Co., 127 S. State St., Jackson; plumbing, \$11,500, Hal Millsaps, West Point; combination heating and plumbing, \$18,497, E. E. Pain, Corinth; electrical, \$3590, Stuart C. Irby & Co., 232 E. Canit St., Jackson; Weiss, Dreyfous & Seiferth, Archts., Maison Blanche Bldg., New Orleans.

Mo., Chillicothe—B. L. Hoffman, 1200 Oak St., Kansas City, erect \$100,000, 4-story, brick, 30-apartment.

Mo., Leasburg—Onondaga Development Co., R. E. Bradford, Pres., erect 40-room hotel, 50 tourist cottages, 200x150-ft. swimming pool in connection with development Onondaga Cave.

Mo., St. Joseph—C. H. Mayer, American Natl. Bk. Bldg., reported, interested in organization of company to erect \$750,000, 14-story, 220-room St. Joseph Hotel, 8th and Edmond Sts.; brick; W. Boschen, Archt., Tootle & Lacy Bk. Bldg.

Mo., St. Louis—W. J. Holbrook, 601 Bolland Pl., reported, promoting erection 12-story hotel and motorbus terminal, Olive, Pine, 12th and 13th Sts.

Mo., St. Louis—Melbourne Hotel erect 15-story, 150-room addition; ballroom with 400-guest capacity, new kitchen and dining room equipment; address A. M. Cornwell, 111 N. 7th St.

Mo., University City—J. Walpert, 7350 Lindell Blvd., soon let contract for \$25,000, 2-story, brick 4-apartment, 7300 block Forsythe St.; B. Shapiro, Archt., Syndicate Bldg.

N. C., Wilmington—E. I. and E. B. Bugg, owners and operators, Malbourne Hotel, Durham, acquired Wilmington Hotel; expend \$50,000 for rehabilitation; refurnish, redecorate, repaper, new furniture, etc.; also plan later to erect 3-story, 80-room addition.

Okla., Oklahoma City—C. E. Duffner has permit for \$30,000 brick apartment, 425 W. 25th St.

Okla., Oklahoma City—Bonenberg Brothers, S. W. Natl. Bldg., have permit for \$10,000 brick apartment, 1013 N. Klein Ave.

Okla., Oklahoma City—R. O. Siffes, 940 W. C. St., erect two brick apartments, 2515 and 2521 N. Robinson Ave.; \$34,000.

Okla., Tulsa—Carter T. Davis, Mid-Continent Bldg., has permit for two \$12,000 apartments, 1232-36 S. Xanthus Ave.

Tex., Brownsville—M. E. Bogue soon ready for bids for 3-story, 26.6x120-ft., rein. conc., hollow tile and stucco, Spanish type 21-apartment; tile roof; Wm. D. Van Sichen, Archt.-Engr., 9 Maltby Bldg. See Want Section—Building Material and Equipment.

Tex., Del Rio—R. W. Sellers and C. P. Scales plan hotel and 20 tourist cottages on Blain's Lake Devil's River near Del Rio; Morris & Noonan Co. Archt.-Engr., Builders Exchange Bldg., San Antonio.

Tex., Houston—Brazos Hotel Co. has plans by J. M. Glover, Bankers Mortgage Bldg., for \$75,000 to \$100,000, 12-story hotel on part of site occupied by Brazos Hotel, Howard Hudson, Mgr.; 500 rooms with bath; dining room and banquet hall to seat 800 people, swimming pool.

Tex., Houston—G. E. Simpson, Marine Bk. Bldg., has permit for \$10,000 3-apartment and store, 2915 Carolina St.

Tex., Waco—J. M. Nix, 205 E. Travis St., Aan Antonio, erect \$500,000, 12 to 15 story, 250-room annex to Hotel Raleigh; basement for auto storage.

Va., Virginia Beach—A. O. Ferebee, Archt., Arcade Bldg., Norfolk, advises work delayed until Oct. 1 on \$80,000, 3-story and basement Ocean Plaza Apartments, to be operated by Pinewood Hotel Corp.

Va., Waynesboro—Edward Palmer of Edward Palmer & Co., Waynesboro, and Littleton M. Sturgis, of J. K. Allinger & Co., New York, promoting organization of corporation to erect 50-room hotel, Wayne Ave. nad First in.

Miscellaneous

Fla., Avon Park—Pine Crest Lakes Club, Col. R. P. Davidson and associates, reported, erect \$75,000 addition.

La., Baton Rouge—Rabenhorst & Co., 120 St. Louis St., rejected bids for 2-story, 85x64 ft., frame and brick veneer mortuary parlor and garage building; Jones, Roessle & O'schner, Archts., Raymond Bldg., Baton Rouge, and Maison Blanche Bldg., New Orleans.

La., New Orleans—Society for Relief of Destitute Orphan Boys, 3320 Carrollton Ave., erect brick laundry and service building; Armstrong & Koch, Archt., 604 Audubon Bldg.; bids in.

Mo., St. Louis—F. W. Schramm Co., Inc., 411 Wainwright Bldg., having preliminary plans drawn by E. J. Gieseler, DeMenil Bldg., for \$100,000, 1 and 2-story, brick, market.

N. C., Raleigh—Capital Club, John W. Hinsdale, Pres., Salisbury and Martin Sts., has low bid at \$246,000 from Fanning & Sweeney, Jefferson Bldg., Greensboro, for 12-story and roof garden club building; ground floor for stores, 3 top floors for club, eight floors for 114 offices; Frank Simpson, Archt., 110 E. Lane St.

Okla., Oklahoma City—Sunbeam Home Assn., 620 W. 21st St., started \$65,000 campaign, under direction Lester B. Gum, for fireproof building; Hawk & Parr, Archts., First Natl. Bk. Bldg.

S. C. Abbeville—J. A. Verchott erect 2-story brick building on N. Main St.; first floor for restaurant; 5 offices on second floor.

Tex., Brownsville—W. E. Tobey soon ready for bids for 150 x 50 conc. swimming pool, 1-story, 150 x 50 ft., frame and stucco bath house, 50 x 70 ft. dance hall; built-up roof; Wm. D. Van Sicken, Archt.

Tex., Del Rio—C. P. Scales having plans prepared by Morris & Noonan Co., Builders Exchange Bldg., San Antonio, for Adobe Lodge on Blain's Lake Devil's River near Del Rio; 2 stories; 4 rooms on ground floor with sleeping quarters above; foundation under construction.

Tex., El Paso—College Club, W. P. Coleman and associates, remodel old El Paso Country Club, Dyer St. and McKinley Ave.; \$10,000; Wm. G. Wuehrmann, Archt.

Railway Stations, Sheds, Etc.

Tex., Fort Worth—Texas and Pacific R. R. E. F. Mitchell, Ch. Engr., Dallas, plans \$6,000,000 passenger and freight terminal; part of expense of constructing underpasses to be borne by city; \$1,500,000 to 2,000,000 bonds will be submitted for vote at early date.

3-29-28

Schools

Ark., Eureka Springs—A. G. Ingalls and W. T. Patterson, owners of Crescent Hotel, remodel and install equipment for Crescent College; \$50,000.

Fla., Apalachicola—Franklin County Bd. of Public Instruction, A. O. Core, Supt., having plans prepared by E. R. James, Bartow, for \$40,000, 1-story brick school; comp. roof, hardwood floors, steam heat.

Fla., Gainesville—Delta Chapter of Kappa Sigma Fraternity, V. L. Richards, Chmn., Bldg. Comm., 141 S. 9th St., has low bid from A. L. Clayton, Jacksonville, for 2-story stucco and frame addition and alterations to frat house; \$12,000; Mellen C. Greeley, Archt., 32 W. Forsyth St., Jacksonville.

4-25

Fla., Monteverde—Monteverde Industrial School started work on 3-story girls' dormitory; 30 rooms on upper floors, first floor for executive quarters and reception rooms; work by students under direction builders.

Fla., Pensacola—Special Tax School Dist. No. 10 votes May 16 on \$30,000 bonds for additions to 2 schools in Brent neighborhood; Wm. Tyler, Supt. of Schools.

Fla., Tallahassee—Leon County Bd. of Public Instruction, F. S. Hartsfield, Supt., has low bid from Hinley Construction Co., Live Oak, for \$100,000, 2-story and basement grade school and 1-story and basement, 189x142 ft., negro school; Edwards & Sayward, Archts.; R. B. Logan, Asso. Archt., both 101 Marietta St., Atlanta, Ga.

4-18

Ga., Atlanta—Chi Psi Fraternity, Wm. Fuller, Chmn., Bldg. Comm., Healey Bldg., erect \$35,000, 2-story and basement, brick, stone trim fraternity house on Fraternity Row, Georgia School of Technology; comp. roof, hardwood and tile floors, steam heat; Pringle & Smith, Archts., Norris Bldg.; bids in May 10.

4-25

Ga., Fairmont—Bd. of Education having plans prepared by Daniell & Beutell, Healey Bldg., Atlanta, for \$25,000 brick school; comp. roof, hardwood floors.

La., Arabi—St. Bernard Parish School Bd., St. Bernard, having plans prepared by Wm. R. Burk, Balter Bldg., New Orleans, for \$45,000, 2-story, brick, stone trim, 12-classroom and auditorium school; built-up comp. roof, wood floors.

Ga., Griffin—Bd. of Education ready for bids about May 15 for brick school and improvements and additions to present buildings; \$100,000; comp. roof, wood and tile floors; Wm. J. J. Chase, Archt., 140 Peachtree St., N. E., Atlanta.

5-2

Ga., Lakemont—Bd. of Education, L. M. Chastain, Sec., has low bid at \$35,000 from E. M. Williams, Monroe, for 1-story and basement, 246x54-ft., brick, 12-classroom and auditorium school; comp. roof; Wm. J. J. Chase, Archt., 140 Peachtree St., Atlanta, Ga.

5-2

Ky., Parmleysville—Wayne County Bd. of Public Instruction, W. C. Bell, Supt., Monticello, erect high schools at Big Sinking and Parmleysville.

La., Bastrop—City votes June 4 on \$250,000 bonds for high school and 2 additional units to grammar schools.

5-2

La., Baton Rouge—Following contractors estimating on additions, alterations and repairs to schools at Fairfields and North Highlands schools, bids May 16: D. E. Chapman, The Burkes Co., New Orleans Bk. Bldg., New Orleans; A. C. Stewart, 810 East Boulevard; J. H. Fitzgerald, Route 2, Fairfields; L. W. Eaton, 1601 North Boulevard; August Barbay, Box 1044; Clifford King, Prescott Lane; W.

M. Day, 2318 Spain St., all Baton Rouge; Wogan & Bernard, Archts., Canal Bk. Bldg., New Orleans, and Old Raymond Bldg., Baton Rouge.

4-25

La., Franklinton—Washington Parish School Bd., D. H. Etringfield, Sec., receives bids May 14 for \$20,000, 1-story, brick and frame school in Econ School Dist.; comp. roof; plans from Wm. T. Nolan, Archt., Canal Bk. Bldg., New Orleans.

3-21

La., Franklinton—Washington Parish School Bd., Frank B. Bateman, Pres., selected Herman J. Duncan, 120 Murray St., Alexandria, to prepare plans for 2-story, brick high school and for alterations to grade school; election May 14 on \$125,000 bonds.

La., New Orleans—Metairie Park County Day School, Metairie Club Gardens, receives bids May 13 for brick and hollow tile school; separate bids for plumbing, heating, electric, marble and tile work; Armstrong & Koch, Archts., Audubon Bldg.; following contractors estimating: J. A. Haase, Jr., 916 Union St.; C. N. Bott, Audubon Bldg.; Otis W. Sharp, 144 Carondelet St.; Lionel F. Favret and Carl E. Woodward, Inc., both Louisiana Bldg.; Gervais F. Favrot, Balter Bldg.; Geary-Oakes Co. and J. C. Senter, Inc., both Louisiana Bldg.

La., Shreveport—Following contractors estimating on \$100,000 Broadmoor school, bids May 13: Werner Co., Inc., Commercial Bk. Bldg.; K. C. Wilson; Ashton Glassell, Ricou Ave.; Tom Green, Ward Bldg.; J. M. Brown, Ricou-Brewster Bldg.; H. Cleveland, Giddens-Lane Bldg.; H. B. Construction Co., Ricou-Brewster Bldg.; Welch & McLain; Gilman & McConnell; McMichael Construction Co., City Bk. Bldg.; all shreveport; F. C. McClannahan, Homer; J. H. Reddick, Kennedy Bldg.; Fort Smith, Ark.; Christy-Dolph Construction Co., Construction Industries Bldg., Dallas, Tex.; Edw. F. Neild, Archt., City Bk. Bldg., Shreveport.

4-18

Md., Loch Raven—Maryland Training School for Boys, L. C. Faulkner, Supt., having preliminary plans prepared by Henry Powell and Allen Burton, 347 N. Charles St., Baltimore, for \$130,000, 2-story brick academic building; James Posey, Engr., 201 W. Franklin St., Baltimore; bonds for building to be sold in Aug., 1930.

Md., Pikesville, Baltimore—McDonough School for Boys, Thos. H. Fitchett, Sec. Treas., soon have plans completed for \$500,000 administration building to replace structure destroyed by fire; 3 stories, 160 x 50 ft. with 50 x 90 ft. wing on either side; accommodate 500 boys; south wing for dining room, laboratories, recitation hall; north wing dormitories; also plans Lyle Memorial Alumni Bldg.; 150 x 50 ft., accommodate 150 boys; Colonial architecture, brick, fireproof, slate roofs; Wm. H. Emory, Archt., 18 E. Lexington St.; Smith & May, Asso. Archts., Calvert Bldg., Baltimore.

11-29

Miss., Macon—Town voted \$45,000 bonds for grammar school, erect addition and remodel present building; V. S. Jackson, Member Bd. of Trustees.

4-18

Miss., Bassfield—Bassfield Consolidated School Dist. Trustees plan \$25,000, 12-classroom school; plan election on bonds soon.

Miss., Clarksdale—Following contractors estimating on 3-story, brick, stone trim fireproof junior high school, central heating plant, minor alterations to Elizabeth Darr High School, Oakhurst School and annex and 2-story, 32x50-ft. brick unit at Eliza Clark School; \$225,000; bids May 28: E. G. Parrish Construction Co., Jackson, Tenn.; W. R. Ellis; E. S. Morris, both Clarksdale; W. G. Wetmore Construction Co., Lampton Bldg.; Estes & Reed Construction Co., Millsaps Bldg.; W. J. McGee & Son, Lamar Bldg., all Jackson; Estes-Williams Construction Co., W. C. Owen & Co., Ferguson Construction Co., Dermon Bldg., all Memphis, Tenn.; Stewart & McGehee Construction Co., Kahn Bldg., Little Rock, Ark.; McArthur & McLemore, M.-W. Bldg.; Lockhard & Vaughan, both Meridian; C. G. Kershaw Contracting Co., Woodward Bldg., Birmingham, Ala.; P. J. Krouse, Archt., M. & W. Bldg., Meridian.

4-25

Mo., Columbia—Sigma Alpha Epsilon Fraternity, University of Missouri, remodel old Oak Hill Hotel for fraternity house; \$25,000 to \$40,000.

Mo., Kirkwood—Kirkwood School Dist., F. P. Tillman, Supt., votes May 18 on \$250,000 bonds.

5-2

Mo., Luxemburg—Hancock Place School Dist. Bd. of Education plans \$40,000, 2-story brick school on S. Broadway; C. W. Wray, Archt., 1001 Rialto Bldg., St. Louis.

Mo., Moberly—City votes May 14 on \$490,000 bonds for new schools and repairs; B. F. Self, Sec. Bd. of Education.

4-25

Mo., St. Louis—City, reported, voted \$400,000 school bonds; John J. Maddox, Supt., Bd. of Education.

Mo., St. Louis—Washington University, D. R. Troop, Chancellor, plans \$1,000,000 radiology building.

Mo., Webster Groves, St. Louis—St. Louis R. C. Archdiocese, Rt. Rev. J. J. Tannrath, Chancellor, 4371 Lindell Blvd., ready for bids about May 15 for \$1,400,000 Boys' Preparatory Seminary on Kendrick Seminary grounds; 1 to 3 stories, brick; Henry P. Hess, Archt., Ambassador Bldg.

1-24

N. C., Chlcod—Pitt County Bd. of Education, R. G. Fitzgerald, Sec., Greenville, erect 16-room brick and frame school; bids in.

N. C., Greenville—G. R. Berryman, Archt., Odd Fellows Bldg., Raleigh, preparing plans for 4 fireproof buildings at East Carolina Teachers College; 2 and 3 stories, tile roofs; \$285,000.

N. C., Rocky Mount—Bd. of Directors, Boys Training School, having plans prepared by G. R. Berryman, Odd Fellows Bldg., Raleigh, for 4 non-fireproof buildings; \$85,000; 2 stories.

N. C., Thomasboro—Mecklenburg County Bd. of Education, Frank A. Edmonson, Sec., Charlotte, receives bids May 13 for \$30,000, 16-classroom school; plans from Chas. C. Hook, Archt., Commercial Bk. Bldg., Charlotte.

4-25

Okla., Hollis—Bd. of Education erect 2-story, rein. conc., brick school; \$68,000 bonds voted.

1-31

S. C., Clinton—State Training School, B. O. Whitten, Supt., erect school; Lafaye & Lafaye, Archts., 1124 Sumter St., Columbia; bids in.

S. C., Rock Hill—Winthrop College, Dr. James P. Kinard, Pres., receives bids May 23 for \$100,000, 3-story brick classroom building; plans from Edwards & Saywards, Archts., 101 Marietta St., Atlanta, Ga.; offices Builders' Exchanges, Atlanta, Ga., Columbia, S. C., and from Dr. Kinard.

5-3-28

S. C., St. Stephens—High School Bd. of Trustees, F. M. Kirk, Sec., receives bids May 15 for 1-story, 10-classroom brick school; plans from L. McD. Hicks, Archt., Florence.

S. C., York—Bethel Consolidated School Dist. votes soon on \$12,000 bonds for school; S. S. Glenn, School Trustee.

Tenn., Chattanooga—City Comsn. considering resolution providing for \$670,000 bonds for school additions and improvements, tentative date of election June 4.

Tenn., Nashville—Bd. of Education, Hume-Fogg High School, receives bids May 13 for \$250,000, 2-story and basement, junior high school, Greenwood Ave. and Scott St.; plans from C. K. Colley & Co., Archts., First Natl. Bk. Bldg.

4-18

Tex., Alice—City votes May 27 on \$125,000 bonds for brick and rein. conc. high school; Irma Curliott, Sec. Bd. of Education; Giesecke & Harris, Archts., 207 W. 7th St., Austin, and 513 Natl. Bk. Bldg., Houston.

3-14

Tex., Amarillo—Catholic Church receives bids May 18 at office Henry T. Phelps, Archt., Hicks Bldg., San Antonio, for remodeling interior and exterior St. Mary's School; brick and conc.; separate bids for plumbing, heating and wiring.

Tex., Austin—School Bd., E. A. Murchison, Pres., soon call for bids for 1-story and basement, brick, steel and rein. conc. gymnasium on West Ave.; maple floors, built-up roof; Giesecke & Harris, Archts., 207 W. Seventh St.

3-7

Tex., Austin—Bd. of School Trustees, E. A. Murchison, Pres., receives bids May 13 for 2-story, brick, 4-room additions to Matthews and Metz schools; also bids May 20 for 2-story, brick, 6-room additions to Fulmore school; plans from H. F. Kuehne, Archt., 824 Littlefield Bldg.

4-25

Tex., Austin—University of Texas Bd. of Regents, C. D. Simmons, Sec., approved plans by Herbert M. Greene, LaRoche & Dahl, Construction Industries Bldg., Dallas, for \$180,000 mechanical engineering building and \$900,000, 4-story and basement, brick and conc. chemistry building; having plans prepared for \$900,000, steel and stone extension to library.

11-22

Tex., Beaumont—South Park Ind. School Bd. receives bids May 15 for \$20,000, 1-story addition to mechanical arts building; 2 classrooms, 2 drawing rooms, laboratory, assembly hall, photographic dark room; Livesay & Wiedemann, Archts., San Jacinto Life Bldg.

Tex., Boerne—Boerne Ind. School Dist., W. E. Janeusch, Sec., voted \$40,000 bonds for high school; Will N. Noonan Co., Archt., Builders Exchange Bldg., San Antonio.

3-28

Tex., Del Rio—Catholic Church receives bids May 18 at office Henry T. Phelps, Archt., Hicks Bldg., San Antonio, for remodeling interior and exterior Sacred Heart School; brick and conc.; separate bids for plumbing, wiring and heating.

Tex., Donna—Bd. of Education, J. E. Weir, Sec., receives bids May 16 for 1-story, 69x98 ft., 10-room and assembly hall elementary school and 1-story, 62x98 ft. manual arts building; brick and rein. conc., fireproof; plans from Phelps & Dewees, Archts., Gunter Bldg.; W. E. Simpson & Co., Engrs., 412 Natl. Bk. of Commerce Bldg., both San Antonio. 1-31

Tex., Dickinson—Bd. of School Trustees, Mrs. Paul Lobit, Pres., erect school; bids in.

Tex., El Paso—School Bd., J. Walker Morrow, Pres., erect \$50,000, 8-room addition to Zavala School; also expend \$30,000 for repairs to schools.

Tex., Freeport—Freeport Ind. School Dist., W. A. Randle, Pres., receives bids May 14 for \$100,000, 2-story, 160x85-ft., brick, steel, rein. conc., stone trim high school; 13 classrooms, auditorium and balcony; cement and wood floors; separate bids on plumbing, heating and electric wiring; plans from Glesecke & Harris, Archts., 513 Second Natl. Bank Bldg., Houston, and 207 W. 7th St., Austin. 3-28

Tex., Goulbush—Goulbush School Dist. plans vote on \$12,000 bonds to supplement \$4000 already available for rock school to replace burned structure.

Tex., Harlington—Harlington Ind. School Dist., N. Joyner, Pres., School Bd., erect \$250,000, 2-story, brick and rein. conc. high school; Spanish Gothic type, conc. and terrazzo floors, assembly room to accommodate 800 pupils; Dewitt & Washburn, Archts., 1229 Kirby Bldg., Dallas; bids in.

Tex., Houston—Houston Ind. School Dist., H. L. Mills, Bus. Mgr., has plans by Curtis & Thomas for 1-story, 6-classroom, hollow tile and brick Newman Elementary School.

Tex., Nacogdoches—Nat Consolidated School Dist. (Nat. Flat Woods and Friendship) voted \$10,000 bonds for brick high school. Address Nacogdoches County School Bd.

Tex., Rhame—City voted \$30,000 bonds for 8-classroom brick school; C. H. Leinbach, Archt., Central Bk. Bldg., Dallas. 4-4

Tex., San Antonio—Los Angeles Heights Ind. School Dist., J. C. Arnold, 124 Ligustrum Drive, W., plans vote on \$300,000 bonds; erect high school; Harvey P. Smith, Archt., Natl. Bk. of Commerce Bldg. 2-28

Tex., Skidmore—Skidmore Ind. School Dist. Trustees having plans prepared by Hamon & Co., City Natl. Bk. Bldg., Corpus Christi, for \$30,000, 1-story, brick, tile and stucco school; 6 classrooms, study hall and auditorium; plan election on bonds.

Tex., St. Paul—St. Paul Ind. School Dist. Trustees having plans prepared by Hamon & Co., City Natl. Bk. Bldg., Corpus Christi, for 2-room school and remodeling present building; plan election on \$10,000 bonds.

Tex., Tatum—Rusk County Bd. of Education, Henderson, having plans prepared by Curtis & Thomas, Houston, for elementary school and remodeling high school; \$50,000.

Tex., Tynan—Tynan Ind. School Dist. Trustees receive bids May 22 for \$20,000, 1-story, hollow tile and stucco school; tile roof, 6 classrooms and auditorium to seat 300 people; W. C. Stephenson, Archt., Beeville.

Tex., Turkey—City votes May 14 on \$85,000 bonds for 8-classroom and auditorium school and repairs to 2 ward schools.

Tex., Vidor—Vidor Consolidated School Dist. votes May 18 on \$50,000 bonds for high school; Levi Singleton, Trustee. 5-2

Tex., Wharton—School Bd., W. D. Hutchins, Pres., having plans prepared by Glesecke & Harris, Second Natl. Bk. Bldg., Houston, for \$75,000 grammar school.

Tex., White Deer—White Deer Ind. School Dist. voted \$35,000 bonds for gymnasium at White Deer and school at Skellytown; M. H. Kuykendoll, Supt. of Dist.

W. Va., Royston—Royston School Dist. votes soon on \$15,000 bonds.

W. Va., Charleston—Charleston Ind School Dist. votes May 21 on \$750,000.

W. Va., Harpers Ferry—Harpers Ferry School Dist. Trustees plan vote on \$100,000 bonds for high school and 2 grade schools.

Stores

Ala., Birmingham—Alabama Home Companies, W. V. M. Robertson, Jr., Pres., remodel buildings, 2024-2026 First Ave.

Ala., Dothan—Blumberg & Sons purchased portion of Porter & Carmichael warehouse on S. Foster St. adjoining department store and plan to remodel as addition.

Ark., Little Rock—W. A. Singlefield, 906 Broadway, has permit for \$10,000 brick store, 813 Broadway.

Fla., Jacksonville—Edward M. L'Engle, 120 W. Bay St., erect store, Broad and Forsyth Sts., to be leased to Sears, Roebuck & Co., Chicago.

Fla., Jacksonville—Mrs. Leonie Battelinni erect 94.6 x 37 ft., 4-story, northwest cor. Main and 21st Sts.; 80 x 37 ft. store, southeast cor. Main and 21st St.; brick; Carlos B. Schoeppl, Archt., Florida Theater Bldg.; bids in.

Fla., Miami Beach—G. K. R. Carter having plans prepared by Wm. F. Brown, Bastian Bldg., for \$40,000, 2-story, 120x60-ft., conc. block, rein. conc. addition to building, Biscayne St. and Ocean Drive.

Ga., Savannah—Globe Shoe Co., Moses S. Smith, erect 2-story store, 19 Broughton St.

La., Baton Rouge—Baton Rouge Waterworks Co. has low bid at \$25,527 from A. C. Stewart, 810 E. Boulevard, for 1-story and basement, brick and stone store and 1-story office building; Wogan & Bernard, Archts., Old Raymond Bldg.

La., Gibsland—Sutton-Colon Co. erect 1-story, 60 x 90 ft., brick store on Second St.; to be occupied in part by Gus Brown's Shop for Women.

La., New Orleans—J. D. Fossier, 2939 Louisiana Ave., erect 2 stores and apartments on Claiborne Ave.

La., New Orleans—B. G. Carbajal, Inc., Hibernia Bldg., erect 1-story, brick and frame, cast stone trim store, 212-16 S. Liberty St.; Emile Weil, Inc., Archts., White-nay Bk. Bldg.; bids in.

La., Shreveport—E. R. Ratcliff, Giddens-Lane Bldg., erect \$100,000, 3-story, 62x150 ft., rein. conc. and brick store, 712-14 Texas St., to be leased to Montgomery Ward & Co., Chicago; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth, Tex.; bids in. 5-2

La., Shreveport—W. M. Mahr erect 1-story 125x100 ft., brick store 100 block Kingshighway; E. A. George Archt.

Mo., Columbia—Columbia Theater Co., D. B. Robnett, Pres., remodel Columbia Theater, recently damaged by fire, for stores.

Mo., Kansas City—W. B. Kirkendall, 3409 erect 1-story building, 1613 Oak St., to be leased to R. C. Coffey, 317 E. 17th St.

Mo., Moberly—Ludwig Abt, 114½ N. Williams St., prepared plans for remodeling 2-story brick store and office building for Mr. Jennings, Mechanics Natl. Bk. Bldg.; \$20,000.

Mo., Springfield—Milligan Investment Co., J. D. Simmons, 311 E. Water St., plans remodeling rein. conc. store, Public Square and South St.; also alterations to brick store, Public Square and College St.

N. C., Charlotte—C. W. Tillett, Sr., Law Bldg., remodel Ottway Theater for store; \$14,000.

N. C., Gastonia—Sears, Roebuck & Co., Chicago, erect \$75,000, 2-story and basement, brick store; tar and gravel roof, wood floors, steam heat; Hugh E. White, Archt., 207 W. Fourth Ave., Gastonia; bids in.

Okla., Muskogee—Connie Ogden, 2811 Oklahoma St., erect \$14,000, 50x100 ft., brick and tile building, 17 and Okmulgee Sts.; store-room, bakery department, warehouse, poultry room.

BUILDING CONTRACTS AWARDED

Association and Fraternal

D. C., Washington—Almas Temple, A. A. O. N. M. S., L. P. Stuart, Chmn., Bldg. Comm., let contract to Chas. H. Tompkins Co., 1608 K St., N. W., for \$200,000 stone temple, 1313 K; Allen H. Potts, Archt., Meadow Lane and Woodside Place. 3-7

Okla., McAlester—Following sub-contracts, let on \$600,000 to \$700,000 Scottish Rite Temple: Struct. steel, erected, Muskogee Iron Works, Inc., Frankfort & Spaulding Sts., Muskogee; exterior stone work, Algonite Stone Co., 4606 Chippewa Rd., St. Louis, Mo., and East Park Place, Oklahoma City, Okla.; steel windows, International Casement Co. by Bissell Builders Supply Co., Colcord Bldg., Oklahoma City; misc. and orna. iron, Midwest Steel Co., First Natl. Bk. Bldg.; rein. steel, Capitol Steel & Iron Co., 815 S. Broadway, all three Oklahoma City; roofing and sheet metal, J. J. Arndal; Portland cement, Rogers Lumber Co.; crushed stone, Stringtown Crushed Stone Co., all McAlester; Wm. T. Schmitt and Hawk & Parr, Archts., First Natl. Bk. Bldg.; J. H. Frederickson & Co., Baltimore Bldg., both Oklahoma City; excavating, constr. of columns and piers started. 4-18

Tex., Beaumont—Young Men's Christian

Tex., Amarillo—The Marizon, M. Sherman, Mgr., 705 Polk St., expend \$35,000 to remodel and install fixtures in building adjoining for addition to store.

Tex., Corpus Christi—Martin Kelly, Stillman & Dempsey Sts., soon let contract for \$25,000 store, Black and Leopard Sts.; blazed tile.

Tex., Harlingen—W. C. Brumley soon ready for bids for remodeling 2-story, 50 x 140 ft., brick and stucco store; \$12,000, comp. roof, hardwood floors; Stanley W. Bliss, Archt.

Tex., Port Arthur—A. Bluestein, 2949 Procter St., has permit for \$17,800, 1-story, 50x150-ft. brick and tile store, 439 Procter St.; J. E. Baker, Contr., 431 Fifth St.; Live-say & Wiedemann, Archts., San Jacinto Life Bldg. 5-2

Tex., San Antonio—Josephine Street Improvement Assn. erect 1-story, 100x80 ft., rein. conc., brick, stucco, cast stone trim 4-store, Josephine St. and Jones Ave.; Adams & Adams, Archts., Real Estate Bldg.; Wm. Balzen, 1127 S. Harkberry St., low bidder at \$18,525.

Theaters

Fla., Miami—Biscayne Blvd. Co., 1301 Biscayne Blvd., having plans revised by Weed & Virrick, 2620 Biscayne Blvd., for \$85,000, steel, rein. conc., conc. block Civic Theater, Biscayne Blvd. and 16th St. 10-18

Ga., Moultrie—J. L. D. and C. H. Powell erect \$35,000, 1-story and basement and balcony, 128x48-ft., rein. conc., brick and tile theater; Greer & Biggers, Archts., Valdosta; bids in. 4-4

Tex., Beaumont—T. P. Lee, Yount-Lee Oil Co., Beaumont, and E. A. Hester of Guardian Trust Co., Houston, reported, promoting erection 12 or 15-story medical arts building and theatre.

Tex., Karnes City—R. C. Person erect theater to be leased to A. B. Goldberg, San Antonio.

Warehouses

Ga., Atlanta—T. C. Erwin, of Adamson-Cates Co., Grant Bldg., signed lease with Southern Stores Corp., operators of Piggly Wiggly Georgia Co., 226 Magnolia St., N. W., for 1-story warehouse to be erected at Grant and Hunter Sts.; 25,000 sq. ft. floor space.

Tex., Dallas—D. R. Parks, 5412 Swiss St., and J. M. Friedman, 5211 E. Grant St., have permit for \$40,000, 3-story brick warehouse, 3809-21 Parry St.

Tex., San Antonio—Albert Steves, Sr., and Ernest Steves, 716 E. Commerce St., have low bid at \$13,295 from Fritz Gembler, 1935 E. Commerce St., for 1-story, 44.6x116-ft. brick office, warehouse and distribution building, 3000 block E. Center St.; National Biscuit Co., Lessee, 85 Ninth Ave., New York; R. H. H. Hugman, Archt., 405 Texas Bk. Bldg. 4-25

Assn. let contract to Christy-Dolph Construction Co., Goodhue Bldg., for Garth Friendship Club, at site of \$400,000 Y. M. C. A. under constr. by same contractor; Tisdale, Stone & Pinson, Archts., Goodhue Bldg., Beaumont, and Ind. Life Bldg., Nashville, Tenn. 12-13

Bank and Office

Ark., Camden—First National Bank remodel bldg. \$12,000; Tom Wilmoth, Contr.; work started.

Ala., Ensley—Following subcontracts let on \$400,000 ten-story Ramsay-McCormack Bldg. for Ensley Holding Co., on which fourth floor conc. slab is completed: Rein. steel and metal pans, Dudley Bar Sales Co., Brown-Marx Bldg.; sand and slag, Birmingham Slab Co., Carver Bldg.; cement and misc. bldg. materials, Ensley Builders Supply Co., 1915 Ave E. and Standard Building Material Co., 2700 Seventh Ave., N.; form lumber, Reynolds Bros. Lumber & Mfg Co., 2501 First Ave., N.; heating and plumbing, Mason & Du'lon, 3024 Third Ave., S.; elect work, Ball & Dyer Electric Co., 905 S. 22nd St.; Brooke B Burnham, Archt., Age-Herald Bldg.; W. C. Spiker, Engr., Empire Bldg.; R. W. Brunnell, Mech. Engr., Amer. Tr. Bldg.;

E. G. Holladay Co., Contr., Martin Bldg., all Birmingham; Mr. King, P. O. Box 839, Nashville, Tenn., handles buying. 3-28

Ark., Pine Bluff—Following contracts let for \$375,000 bank and office bldg. for Simmons National Co., on which conc. for ground story is being poured: Hauling, Merchants Transfer Co., 116 Chestnut St.; cement, lime, cellite, misc. bldg. material, etc., Riley Feed Mfg.; gravel and sand, Pine Bluff Sand & Gravel Co.; plumbing, heating and ventilating, Robinson Bros. Plumbing Co., 214 W. Barr St.; millwork, Standard Lumber Co., 407 E. Fifth St.; rough lumber, Arkmo Lumber Co., all Pine Bluff; rein. steel, Capital Steel & Iron Co., Gazette Bldg.; Cork, Fisher Cement & Roofing Co.; common brick, Acme Brick Co., 115 Center St.; cut stone, Hilliard Bros.; roofing and roof insulation, Cooperative Oil & Paint Co., 415 E. Markham St.; sheet metal work, Collins Sheet Metal Works, 912 W. Markland St.; plastering and lathing, C. B. Humphreys, Moore & Turner Bldg.; marble and tile, Southwest Marble & Tile Co., 433 W. Washington St., N. L. R.; sliding windows, Chas. T. Watts, Pyramid Bldg.; all Little Rock, Ark.; skylights, P. M. Brunner Grantold Co.; waterproofing, Western Waterproofing Co., Syndicate Tr. Bldg.; terra cotta, Northwestern Terra Cotta Co., 4417 Oleatha St.; all St. Louis, Mo.; face brick, Malvern Brick Co., Malvern, Ark.; elect. work, Electric Shop, 216 Texas St., Shreveport, La.; casement sash, David Lupton's Sons Construction Co., Construction Industries Bldg., Dallas, Tex.; misc. iron and steel, fireproof doors, elevator fronts and struct. steel, Southern Ornamental Iron Works, Arlington, Tex.; structure rein. conc. and brick, 11 stories, 55x110 ft.; address proposals on furnishings, equipment, etc., \$175,000, to Simmons National Bank; Eugene John Stern, Archt., A. O. U. W. Bldg., Little Rock; W. J. Knight & Co., Engrs., St. Louis; Wm. Peterson, Contr., Donaghey Bldg., Little Rock. 4-25

D. C., Washington—Francis H. Duehay, Inc., Woodward Bldg., let contract to Charles H. Tompkins Co., 1608 K St., N. W., for 11-story addition to Woodward Bldg.; Geo. N. Ray, Archt., 1219 Connecticut Ave., N. W., Washington; sub-contracts not let. 4-18

Miss., Jackson—American & Venetian Marble Co., 615 Julia St., New Orleans, La., has terrazzo flooring contract for \$600,000 office bldg. for Plaza Investment Co.; N. W. Overstreet, Archt., Miss. Fire Bldg.; I. C. Garber, Med. Bldg., and M. A. Lewis, 901 N. Jefferson St., Contrs., all Jackson. 4-25

Okl., El Reno—Citizens National Bank let contract to Schaffer-Reynolds Co., Inc., Oklahoma City, for \$65,000 bldg.; brick, stone and rein. conc., 2 stories, 50 x 120 ft., conc. floors, comp. roof, struct. and rein. iron, steam heat; Harry Reynolds, Archt., 915 N. Hudson St. 4-25

Va., Alexandria—Virginia Public Service Co., Charlottesville, Va., let contract for \$200,000 office bldg., Prince and Washington Sts., to Virginia Engineering Co., Inc., 322 28th St., Newport News, Va.; Indiana limestone, brick, steel frame, 4 stories and basement, 100x50 ft., terrazzo floors, conc. foundation, comp. roof; work started; Frank D. Chase, Inc., Archt.-Engr., 720 N. Michigan Blvd., Chicago, Ill. 4-25

Churches

Md., Lansdowne—Evangelical Lutheran church of Our Saviour, W. E. Fox, Chmn., Bldg. Comm., Clyde Ave., let contract to Ritter & Lambert, 5511 Hilltop Ave., Raspeburg, Baltimore, for \$50,000 bldg.; stone, 40x75 ft., slate roof, steam heat; auditorium seat about 400; John Freund, Archt., 1307 St. Paul St., Baltimore. 4-25

Mo., Cape Girardeau—Presbyterian Church completed foundation for \$35,000 Sunday school; brick, steel girders, wood joist, 2 1/2 stories, 38x86 ft., conc. and wood floors, asbestos shingle roof; furnishings, equipment, etc., \$5000; J. Hal Lynch & Son, Archts., 625 Locust St., St. Louis; S. Boutin, Contr., Cape Girardeau. See Want Section—Building Material and Equipment. 4-25

Tenn., Nashville—Tulip St., M. E. Church, South, Sixth and Russell Sts., let contract for \$35,000 Sunday school to Fred Causey, Independent Bldg.; brick and cut stone, 3 stories, 110x43 ft., stone and conc. foundation, comp. shingle roof; furnishings, equipment, etc., \$5,000; corridor connecting present structure; plans by H. M. King, care Bd. of Extension of M. E. Church, South, 1115 Fourth Ave., Louisville, Ky. 11-9

City and County

Ala., Birmingham—Truscon Steel Co., Youngstown, O., reported, has contract for 350 tons rein. steel for \$3,000,000 to \$3,250,000 Jefferson County Courthouse; Holabird & Root, Archts., 333 N. Michigan Ave., Chicago, Ill.; Harry B. Wheelock, Asso. Archt., Steiner Bldg., Birmingham; Southern Ferro Concrete Co., Contr., 70 Ellis St., Atlanta, Ga. 4-11

Ga., Moultrie—City let contract at \$25,000 to Milligan & Gore for brick, tile and conc. municipal bldg.; 2 stories, conc. foundation, tin and built-up roof; T. F. Lockwood, Archt., Murrah Bldg., Columbus. 4-25

Md., Baltimore—Board of Estimates let contract to Avon Construction Co., Inc., 216 E. Lexington St., to clean and repair courthouse; \$60,000. 2-21

Mo., Caruthersville—Pemiscot County Court erect 2-story addition to jail; 16x32 ft., brick and conc.; Fisher & Stephan, Contrs. 4-25

Okl., Norman—City started work on \$25,000 library. Address City Council. 4-25

Dwellings

Ala., Birmingham—Chas. A. Fell, 2231 S. 16th Ave., let contract to Thos. T. Walker & Sons, 3321 1/2 Seventh Ave., Wylam, for brick veneer residence; 1 story; J. F. Surmann, Archt., Comer Bldg. 4-25

Ala., Birmingham—Mildred Taylor, 556 Lancaster Terrace, erect brick veneer residence, Mt. Brooks Estates; 2 stories, slate roof, vapor steam heat; Warren, Knight & Davis, Archts., Protective Life Bldg.; Woolard & Lynch, Contrs., 2115 N. First Ave. 4-25

Ala., Birmingham—Dr. Marion T. Davidson, Protective Life Bldg., erect brick veneer residence, Mt. Brooke Estates; 2 stories, 40x117 ft., slate roof, vapor steam heat; Warren, Knight & Davis, Archts., Protective Life Bldg.; Woolard & Lynch, Contrs., 2115 N. First Ave. 4-25

Ala., Birmingham—Lawson E. Gambill, Virginia Drive, erect \$10,000 brick veneer residence, Homewood; 1 story, comp. roof, furnace heat; Jacob E. Sallie, Archt., Empire Bldg.; owner builds. 4-25

Ala., Tuscaloosa—M. R. Bettis let contract for \$20,000 residence to Waddell & Laycock; brick veneer, 2 stories, slate roof, steam heat; Wm. Leslie Welton, Archt., American Traders Bldg., Birmingham. 4-25

Ark., Bentonville—D. W. Peel, Jr., First Nat. Bk. Bldg., erect residence, W. 12th St.; W. R. Hopkins, Contr. 4-25

Ark., Dardanelle—Masters Bros. started work on 4 brick veneer dwellings, N. First St.; 1 story, 5 rooms, oak floors, tile baths; owner builds. 4-25

Ark., Dardanelle—Van Wesley started work on 2 brick veneer dwellings, S. Second St.; 1 story, 5 rooms; owner builds. 4-25

Ark., Parkin—S. W. Sterling started work on \$10,000 brick and frame residence near Parkin; 2 stories, oak floors, tile bath, wood shingle roof; Irvin D. McDaniel, Archt., First Natl. Bk. Bldg., Memphis, Tenn.; J. G. Ogletree, Contr., Wynne, Ark. 4-25

D. C., Washington—W. C. & A. N. Miller, 1119 17th St., N. W., have permit for \$16,000 dwelling, 4373 Garfield St., N. W.; brick and stone, 2 stories; owner builds. 4-25

D. C., Washington—Dr. A. Magruder MacDonald, 800 Twelfth St., N. E., let contract to Hollister A. McQuary, 7601 Twelfth St., N. W., for \$35,000 brick and conc. residence, 1022 Maryland Ave., N. E.; 3 stories, 45x57 ft., tile and hardwood floors, conc. foundation, slate or tile roof; plans by contractor; excavation completed. See Want Section—Building Material and Equipment. 5-2

Fla., Boynton—O. S. Heaton, Lake Worth, has contract for dwelling, Boynton Beach; Wm. M. King, Archt., Harvey Bldg., West Palm Beach. 4-25

Fla., Clermont—Wayne E. Moore erecting residence. 4-25

Fla., Clewistown—Mrs. G. H. House let contract to Glenn B. Heard for \$30,000 Colonial residence; stucco on Celotex, 2 stories, 36x48 ft.; C. J. Lawrence, Archt., Murray Bldg., Palm Beach. 3-28

Fla., Jacksonville—R. Ross Parkhill, Florida Theater Bldg., erect \$12,000 frame residence, 2914 Holley Ave.; 2 stories, 41x29 ft.; day labor. 4-25

Fla., Macclenny—A. Rowe erecting dwelling. 4-25

Fla., Miami—A. F. Becker, 129 N. E. First Ave., erect 5 dwellings and garages, Alhambra Circle and Coral Way; plans ready about 1 week; conc. block, tile and wood floors, tile roofs; about \$200,000; Wade & Oemler, Exch. Bldg., architects for 3; John & Coulton Skinner, French Village, Coral Gables, architects for 2; owner builds. 4-25

Fla., Miami Beach—Dr. Maurice H. Strum erect \$25,000 residence and garage, 4444 Alton Rd.; conc. block, 2 stories, 51x44 ft.; Paist & Stewart, Archts., Coral Gables; owner builds. 4-25

Fla., Miami Beach—Joel R. Goodby erect \$15,000 residence and garage, 31st St. and Royal Palm Ave.; 2 stories, 36x38 ft.; A. N. Fuson, Contr., 1614 Euclid Ave. 4-25

Fla., Miami Beach—James Cox let contract for \$13,000 residence to Continental Construction Co., Exchange Bldg., Miami; Paist & Stewart, Archts., Coral Gables. 4-25

Fla., Miami Beach—J. H. Chris Mitchell, New York, completed footings for \$20,000 residence, San Marino Island; rein. conc. and conc. block, 2 stories, tile floors, rein. conc. and pile foundation, tile roof; A. Fraser Rose, Archt.-Engr., Miami Beach; Maine-Delburn Co., Contr., Congress Bldg., Miami. 5-2

Fla., Palm Beach—W. W. Bissell, 2 Gus Bath Ave., Palm Beach and Rochester, N. Y., erect Moorish type residence, Chilian Ave.; servants' quarters and 2-car garage under way; 2 stories, 4 baths; Chas. Snyder, Archt.-Contr. 4-25

Fla., Palm Beach—H. P. McGinley, 117 S. Poinsettia Ave., erect \$35,000 hollow tile and rein. conc. residence, Dunbar Rd.; foundation in; 2 stories, 45x65 ft., tile floors, Cuban tile roof; Jas. E. Camassa, Archt.; Camassa Construction Co., Contr., both 209 Lakeview Ave., West Palm Beach. See Want Section—Building Material and Equipment. 4-25

Ga., Atlanta—Thos. K. Glenn, Trust Co. of Ga. Bldg., let contract for \$250,000 residence near Sandy Springs to Barge-Thompson Co., 136 Ellis St., N. E.; fireproof, Old English type, rein. conc., brick and tile, native stone trim, orna. tile and hardwood floors, interior marble and tile work, slate roof, steam heat; Cooper & Cooper, Archts., Bona Allen Bldg. 4-25

Ga., Atlanta—Mrs. A. M. Crowe let contract for \$20,000 residence to Padgett & Sutton, Bona Allen Bldg.; brick, limestone trim, slate and Barrett tar and gravel roof; Edouard Clerk, Archt., Henry Grady Building. 5-2

Ga., Atlanta—Mrs. Harry Norman erect \$10,000 Colonial bungalow, Pelham Rd.; 1 1/2 stories, 7 rooms; Harold McKenzie Co., Contr., Healey Bldg. 4-25

Ga., Atlanta—Howard J. Horton, 789 Woodland Ave., S. E., erect \$10,000 residence, Pesham Rd.; 7 rooms, 1 1/2 stories; Harold McKenzie Co., Contr., Healey Bldg. 4-25

Ga., Atlanta—Jas. H. Harkey, 81 E. 17th St., erect \$14,500 brick veneer duplex, 92 Twenty-sixth St., N. E.; 2 stories, comp. roof; day labor. 4-25

Ga., Atlanta—J. R. Jordan & Son, 671 E. Morningside Drive, N. E., erect 4 brick veneer dwellings, 1702-14-20-28 Rock Springs Rd., N. E.; 1 story and basement, 7 rooms, 2 baths, hardwood and tile floors, steam heat; \$36,000; also \$7500 dwelling, 1948 Pelham Rd., N. E.; owner builds. 4-25

Ga., Atlanta—H. W. Nicholas, Brighton Rd., erect \$15,000 residence, Peachtree Battle Ave.; brick, 2 stories and basement, conc. footings, hardwood and tile floors, slate roof; owner builds. 4-25

Ga., Rockmart—Goodyear Tire & Rubber Co., Akron, O., let contract at about \$750,000 to Batson-Cook Co., West Point, Ga., for 392 dwellings, connection with constr. of fabric plant; frame, brick veneer, stone tile and Du-Brik, 152 of 3 rooms, 186 of 4 rooms; 20 four-room duplexes and 35 of 5 rooms; metal and wood lath, comp. roofs; Robert & Co., Inc., Engrs., Atlanta, Ga. 4-25

La., New Orleans—C. W. Saffel, Contr., 4922 Loyola St., erect double dwelling, Miro and Thalia Sts. 4-25

Ga., Cartersville—L. J. Bacus let contract to W. P. Francis, 201 Luckie St., Atlanta, for residence; frame, shingle, conc. footings, hardwood and tile floors, slate roof; R. Kenon Perry, Archt., Wynne-Claughton Bldg., Atlanta. 5-2

Ga., Rome—American Chatillon Corp., 393 Seventh Ave., New York, let contract to Townsend Lumber Co., Anderson, S. C., for 338 dwellings; 21 double 2-room dwellings, 36 of 3 rooms, 153 of 4 rooms, 102 of 5 rooms and 18 of 6 rooms; about \$800,000; constr. of Du-Brik mfg. by Standard Brick & Tile Co., Macon, Ga.; Texas Co. comp. shingle roofs; plumbing and elect. wiring not yet let; Lockwood Greene Engineers, Inc., Engrs.-Archts., 100 E. 42nd St., New York. 5-2

La., New Orleans—James Brocato, 518 Ursuline St., erect raised double residence, 1127 Ursuline St.; Geo. J. Lupo, Contr., 4925 S. Tonti St. 4-25

La., Shreveport—J. C. Hamilton, 212 Egan St., let contract for 2-story residence, Glen Iris, to Gilman McCollery, Ricou-Brewster Bldg., at \$13,000; D. E. Somdal, Archt. 5-2

Md., Baltimore—Northern Realty Co. erect 6 brick dwellings, 1553-69 Homestead St.; 2 stories, 15.10x41 ft., hot water heat; Fredk. E. Beall, Archt., 306 St. Paul St.; J. Cohen, Contr., 4615 Old Pimlico Rd.

Md., Baltimore—John M. Walker, Garrett Bldg., erect \$18,000 residence and garage, 224 Wendover Rd.; 2½ stories, 68.6x38 ft. and 20x30 ft., slate roof, hot water heat; H. A. Stilwell, Archt.; Peyton B. Strobel Construction Co., Contr., 206 E. Lexington St.

Md., Baltimore—Roland Benjamin, Fidelity Bldg., erect \$12,000 residence and garage, 108 Witherspoon Rd.; stone, 2 stories, 56x29 ft., slate roofs, hot water heat; Lewis & Westenhaver, Archts., 20 E. Lexington St.; Tilghman O. Morgan, Contr.

Md., Baltimore—Harry A. Schultz, Fidelity Bldg., erect \$19,000 brick residence, 319 Broxton Rd.; 2½ stories, 26x45.6 ft., slate roof, hot water heat; C. H. Hebrank, Archt., 3 E. Lexington St.; Thomas & Cross, Contrs., 3220 Greenmount Ave.

Md., Baltimore—Geo. W. Schoenhals, Munsey Bldg., erect 33 brick dwellings, 3027-91 Mayfield Ave.; 2 stories, 15x40 ft., 15.3x40 ft. and 16x40 ft., hot water heat; \$72,000; M. A. Taylor, Archt.; owner builds. 4-25

Md., Baltimore—Carl C. Porter, 352 Gwynn Ave., erect \$12,000 residence and garage, 205 Upnor Rd.; brick, 2½ stories, 19.6x19.6 ft., hot water heat, slate roof; \$12,000; Machen & Dixon, Archts., 312 N. Charles St.; owner builds.

Mo., Clayton, St. Louis—J. E. Richardson, care Angelo B. M. Corrubia, Archt., Arcade Bldg., erect \$16,000 brick residence, Davis Place; 2 stories and basement, 37x45 ft., stone foundation, hardwood floors, tile bath.

Mo., St. Louis—Lynton T. Block, 501 Clara Ave., let contract to Geo. J. Weber, 6317 Garasche Blvd., for \$60,000 residence, Edge-wood; tile, stucco and rein. conc., 2 stories, L shape, 72 x 84 ft., wood and terrazzo floors, conc. foundation, slate roof; address proposals on furnishings, equipment, etc., \$25,000, to Study & Farrar, Archts., Arcade Bldg.; C. S. Bumann Engr., care Archts. See Want Section—Building Material and Equipment.

Mo., St. Louis—E. Fuchs, 1444 John St., started work on \$10,000 residence, 5807 Kingshighway, N. W.; brick, 1 story and basement, 29x52 ft., hardwood floors, tile bath, comp. shingle roof, hot air or hot water heat; Chas. L. Thurston, Archt., 111 W. Lockwood St., Webster Groves; E. J. Kidd, Contr., 4907 Davison St.

Mo., St. Louis—Jas. B. Hills, care O'Meara & Hills, Archts., Arcade Bldg., erect rubble stone residence, 202 Rosemont Ave.; 2 stories and basement, 46x56 ft., hardwood floors, tile bath, slate roof, vapor heat; G. W. Schuler & Co., Contrs., Arcade Bldg.

Mo., St. Louis—W. L. Portman, 2824 Marcus Ave., erect 2 brick dwellings, 5957-61 Era Ave.; 1 story and basement, 24 x 33 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; \$10,000; owner builds.

Mo., St. Louis—Ferdinand P. Grimm, 1114 Dover Place, erect \$10,000 brick residence, 3811 Indiana Ave.; 1½ stories and basement, 22x42 ft., hardwood floors, tile bath, comp. shingle roof, hot water heat; F. G. Avis, Archt., 1021 Big Bend Blvd.; work by sub-contract.

Mo., St. Louis—J. L. Schwab, 17th and Olive St., erect \$15,000 residence, 243 Woodbourne St.; brick, 2 stories, slate roof; I. A. Baum, Archt., Chicago, Ill.; John Craig & Sons, Contrs., 6327 Southwood St.

Mo., St. Louis—H. Ahlers, 3526 Illinois Ave., erect \$12,000 residence, 3527 Wisconsin Ave.; brick, 1 story and basement, 27x48 ft., hardwood floors, tile bath, slate shingle roof, hot air heat; work by sub-contract.

Mo., St. Louis—C. Corbett, 4053 Giles Ave., erect \$12,000 residence, 410 Iron St.; brick, 1½ stories and basement, 33x42 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; F. Schmid, Contr., 4053 Giles Ave.

Mo., St. Louis—Guarford Realty & Investment Co., Fullerton Bldg., erect \$12,000 dwelling and garage, Woodbourne Drive; 2½ stories, 48x38 ft., slate roof; Nolte & Nauman, Archts.; R. A. & G. B. Bullock, Contrs., Fullerton Bldg.

Mo., St. Louis—Queens Investment Co., 4533 N. Kingshighway, erect 6 dwellings, 4900 Block Hooke St.; brick, 1 story, 26x35 ft., asphalt shingle roofs, hot air heat; \$24,000; O. R. Sever, Archt., 4201 Alcott St.; C. Wilcox, Contr., 4532 N. Kingshighway.

Mo., St. Louis—J. E. Jackson erect 3 brick dwellings, 5654-58-64 Hiller Place; 1 story, 21x44 ft., comp. shingle roofs, hot air heat; \$10,000; Jackson & Sons, Contrs., both 5948 Shulte St.

Mo., St. Louis—Drs. L. M. and T. E. Kallenbach, 1703 S. Grand Ave., erect \$10,500 residence, 5209 Miami St.; brick, 2 stories, 25x48 ft., asphalt shingle roofs, hot water heat; C. L. Grebel, Contr., 3968 Bates St.

Mo., St. Louis—Maxwell E. Ramsey, Clayton, erect \$12,000 residence, Moorlands Park; 41x46 ft.; W. L. Oakes, Archt., 6454 Penrod St.; Wilmer L. Oakes Construction Co., Contr.

Mo., St. Louis—Benbow Realty & Investment Co., Fullerton Bldg., erect \$12,000 dwelling, 657 Polo Drive, Country Club Place; brick, 49x35 ft.; Nolte & Nauman, Archts., Fullerton Bldg.; D. S. Corey, Contr., 8342 Flora St.

Mo., St. Louis—Frees & Leigh, Rwy. Exch. Bldg., erect \$13,500 dwelling, 820 Moorlands St., Moorlands Park; brick, 27x54 ft.; owners build.

Mo., St. Louis—J. Kendall, 7308 Michigan Ave., erect \$10,000 brick residence, 3841 Wilmington St.; 1 story and basement, 25 x 48 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; Schulte & Tarling, Archts., 2806 N. Grand Blvd.; H. Hinrichs, Jr., Contr., 6440 Alabama Ave.

Mo., St. Louis—Wallace M. Smith, 4555 Queens Ave., erect 2 brick dwellings, 4540-44 Durant Ave.; 2 stories and basement, 20x30 ft., tile baths, hardwood floors, hot air heat, asphalt shingle roofs; \$12,000; Schulte & Tarling, Archts., Grand-St. Louis Bldg.; work by sub-contract.

Mo., St. Louis—Nolan Stinson, 6635 Delmar Ave., erect \$10,000 brick residence, Moorlands Park; Leo Willmering, Archt.; owner builds.

Mo., St. Louis—Vernon Laux Realty Co., 705 Chestnut St., erect 2 brick dwellings, 4156-62 Tyrolean Ave.; 1 story and basement, 27x36 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; H. McMichael, Contr., 518 Fassen Ave.

Mo., St. Louis—Edw. Edelmann, 4167 Connecticut St., erect brick residence, Osage Hills; 2 stories and basement, 47x28 ft., hardwood floors, tile bath, comp. shingle roof; F. G. Avis, Archt., 1021 Big Bend Blvd.; work by sub-contract.

Mo., St. Louis—Chas. J. Mellis, 3506 Colonial St., erect 5 brick dwellings, Davies Place; 1 story and basement, 30x32 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; work by sub-contract.

Mo., St. Louis—Martin M. Gavin, 220 Sixth St., started work on \$15,000 brick residence, 441 S. Rock Hill Rd.; 2 stories and basement, 49 x 28 x 39 ft., tile bath, stone foundation, hardwood floors, slate or tile roof, hot water heat; Residence Construction Co., Contr., 7194 Delmar Blvd.

Mo., St. Louis—C. Petzoldt, 3614 Morganford Rd., erect \$10,000 residence, 3937 Chipewa St.; brick, 2 stories and basement, 21 x 49 ft., hardwood floors, tile bath, asphalt shingle roof, hot air heat; F. J. Kurz, Contr., 3659 Meramec St.

Mo., St. Louis—Florence Realty Co., 1420 Louisville Ave., erect \$10,000 brick residence, 1562 Louisville Ave.; 1 story and basement, 26 x 45 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; Clarence Blackwood, Contr., 4952 McPherson Ave.

Mo., St. Louis—M. Heling, 5034 Lotus Ave., erect 2 brick dwellings, 6038-40 Lucille Ave.; 1 story and basement, 20x52 ft., tile baths, hardwood floors, comp. shingle roof, hot air heat; J. E. Thomas, Contr., 4371 Page Ave.

Mo., University City, St. Louis—F. Mahalyi, 613 N. Broadway, erect \$11,000 residence and garage, 7360 Teasdale St.; brick, 2 stories, 41.11x33.7 ft. and 19.6x19.6 ft., slate roof, Mueller gas fired boiler heat; W. L. Jackson & L. L. Pack, Archts., Buder Bldg.; Wagoner Realty & Construction Co., Contr., 7313 Manchester St.

Mo., University City, St. Louis—F. M. Duechler, 6261 Clemens St., erect \$16,000 brick and stucco residence and garage, 365 Mission St.; 2 stories, 27x51 ft., copper and tile roof, hot water heat; W. B. Jarvis, Archt., Contr., 6312 Easton St.

Mo., University City, St. Louis—Kramp Construction Co., 6764 Chamberlain Ave., erect \$12,000 dwelling, 529 Purdue Ave.; brick, 2 stories and basement, 35x38 ft., hardwood floors, slate roof, tile bath, hot water heat; Geo. B. Willmering, Archt., 2616A N. Kingshighway.

Mo., University City, St. Louis—John Vaccaro, 1435 Waldron Ave., erect 2 brick dwellings, 7251-55 Carlyle Ave.; 1½ stories and basement, 26x36 ft., hardwood floors, comp. shingle roof, tile bath, hot air heat; \$15,000; work by sub-contract.

Mo., Webster Groves, St. Louis—C. C. Feldman, 109 N. Tenth St., St. Louis, erect bldg. 40, E. Lockwood St., for post office; brick, 37x110 ft.; Huger & Brucker Construction Co., Contr., Wainwright Bldg., St. Louis.

N. C., Concord—A. R. Hoover completed foundation for \$25,000 residence; hollow tile and rock veneer, 2 stories, 70x45 ft., oak floors; F. L. Bonfoey, Archt., Builders Bldg., Charlotte; day labor. See Want Section—Building Material and Equipment.

N. C., Winston-Salem—Rev. S. F. Naff started work on brick veneer residence, Glenn Ave., Bon Air; 6 rooms; H. T. & H. M. Highfill, Contrs., Farmers Bk. Bldg.

Okla., Shawnee—Ben P. Horst, has contract for one \$10,000 and two \$20,000 dwellings, Belmont Heights; brick veneer. 4-25

Okla., Tulsa—F. A. Ashby, 105 E. 21st St., let contract to Harmon & Wilkerson for \$15,000 residence; brick veneer, 2 stories and basement. 4-25

Tenn., Memphis—J. Waller, 177 Bickford Ave., laying foundation for \$11,000 residence, 388 East Parkway; brick and stone, 1½ stories, 9 rooms, 2 baths, oak floors, tile roof; T. W. Sipple, Archt., 914 N. Third St.; Walter Thompson, Contr., Forrest Ave. and Rawhigh Rd. 5-2

Tenn., Memphis—Sam Friedman, 1989 Madison Ave., let contract for \$15,000 residence, Hein Park, to J. W. Abbott, Park Ave.; brick veneer, 2 stories and basement, 63x44 ft., oak floors, comp. shingle roof, hot water heat; garage and servants' quarters; Polk W. Agee, Archt., Fidelity Bk. Bldg. 3-21

Tenn., Memphis—Judge Lamar Heiskell, Bk. of Commerce Bldg., let contract to F. E. Meacham, 1042 Roland St., for brick veneer residence; 2 stories and basement, 69x52 ft., oak floors, comp. roof, tile bath, steam heat; Anker F. Hansen, Archt., Shrine Bldg. 1-10

Tenn., Memphis—Dr. D. H. Anthony, 2299 Union Ave., let contract to R. F. Howell, 2561 Hale St., for \$20,000 residence; stucco, 2 stories and basement, 82x43 ft., oak floors, tile roof and bath, steam heat; Geo. Mahan, Jr., Archt., 2299 Union Ave. 4-11

Tenn., Memphis—Miss E. Hatfield, 269 Walnut St., has low bid from Joe E. Schingle, 2008 McLemore Ave., for residence, Bartlett White Station Rd.; H. M. Burnham, Archt., Goodwyn Inst. Bldg. 4-18

Tenn., Memphis—P. E. Kerby, 1144 Tanglewood St., erect \$18,500 residence, Natchez Lane; brick, stories and basement, oak floors, clay tile roof, tile bath, steam heat; owner builds.

Tenn., Memphis—L. K. Thompson, 1785 Harbert St., remodel and erect addition to residence; \$10,000, brick veneer; Geo. Mahan, Jr., Archt., Amer. Bk. Bldg.; W. T. Hudson, Contr., 63 S. Third St.

Tenn., Memphis—Robt. C. Crouch, 63 S. Third St., erect \$16,000 dwelling, Iroquois Rd.; brick veneer, 1 story and basement, oak floors, tile baths, tile roof, steam heat, garage and servants' quarters; owner builds.

Tenn., Memphis—H. C. King, Central Ave., erect \$16,000 residence, Central Ave. near Highland Ave.; brick veneer, 2 stories and basement, oak floors, tile baths, tile roof, steam heat, garage and servants' quarters; R. L. Sieg, Archt., Fidelity Bk. Bldg.; owner builds.

Tenn., Memphis—S. E. Reid, 262 Angelus St., erect brick veneer residence, Hein Park; 1 story and basement, 61x47 ft., oak floors, tile bath, comp. shingle roof, hot water heat, garage and servants' quarters; L. L. Diehl, Contr., 1663 Forest St.

Tex., Coleman—Following started work on residences: Joe McCarthy, C. E. Owen and G. W. Smith.

Tex., Fort Worth—Dr. Earl Harris, Med. Arts Bldg., erect brick veneer English type residence and garage, Berkley Place; 1½ stories, 57x43 ft., 2 tile baths, metal bath, comp. roof; Stewart Moore, Archt., Flatiron Bldg.

Tex., Houston—Ben C. Belt (lately noted Ben C. Holt), Warwick Apts., let contract at \$35,500 to Albert Bertelsen, Rosalie St., for brick veneer residence, Del Monte Drive and Larchmont St.; 2½ stories, 39x72 ft., oak floors, rein. conc. foundation, slate roof; Jos. W. Northrop, Jr., Archt., Kirby Bldg. See Want Section—Building Material and Equipment. 5-2

Tex., Houston—Meyer Ranch started work on \$14,000 residence and garage, 2201 Calumet Drive; brick veneer, 2 stories, 2 baths; I. Fallas, Contr.

Tex., Houston—J. E. Holley erecting duplex, 22 Arbor St., Riverside Terrace; brick veneer, 2 stories, 10 rooms; W. F. Holley, Contr., 1115 McGowen St.

Tex., San Antonio—Will N. Noonan, Archt., Bldrs. Exch. Bldg., let contract for residence to G. B. Mitchell, 722 Drexel St.; frame, 2 stories, about 38x42 ft.; plans by owner.

W. Va., Clarksburg—Geo. D. Curtin, Goff Bldg., let contract to F. A. Strother Co., First Natl Bk. Bldg., Huntington, for \$20,000 residence, W. Main St., Goff Plaza; frame stucco, 2 stories. 4-11

Government and State

Ky., Lancaster—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., let contract at \$15,410 to Jones Bros. & Co., Planters Bk. Bldg., Wilson, N. C., to remodel post office. 4-11

Tenn., Paris—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., let contract at \$34,000 to J. P. Foley & Sons, Inc., 80 Boylston St., Boston, Mass., to remodel post office. 5-2

Tex., Fort Sam Houston, San Antonio—W. E. Jarrott & R. L. Jefferson, 935 Ridgewood Court, will receive contract at \$20,000 to paint bldgs., Fort Sam Houston.

W. Va., Alderson—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., let contract at \$17,229 to Smythe & Co., 1416 F St., N. W., Washington, for extension to dining room and kitchen of administration bldg., Federal Industrial Institution for Women; 2 hollow tile silos, Peter Wallace, Oak Hill, W. Va., at \$2950. 4-25

Hospitals, Sanitariums, Etc.

La., New Orleans—Mercy Hospital erect 2-story nurses' home and boiler room, Annunciation St. near Thalia St.; rein. conc. foundation, masonry work, hollow tile, wood and canvas floors, copper screens, sheet metal work, asbestos shingle roof; Andry & Feitel, Archts., New Orleans Bk. Bldg.; Lionel F. Favrot, Contr., Louisiana Bldg.

Mo., Memphis—Scotland County Court let contract to Creek & Burke for \$25,000 fireproof infirmary; brick and hollow tile, 2 stories, asphalt shingle built-up roof, hot air heat; W. T. Scott & Son, Archts., 401 Kentucky St., Louisiana. 4-18

N. C., Asheville—Asheville Mission Hospital completed excavation for \$110,000 nurses' home; brick, conc., stone trim, 3 stories, 132x34 ft., with 68x40-ft. wing, conc. and wood floors, tin roof over Porete slab; W. H. Lord, Archt., 17 Church St.; V. W. Breeze & Co., Engrs., Castanea Bldg.; L. L. Merchant Construction Co., Contr., Biltmore Ave. 5-2

Hotels and Apartments

Ala., Birmingham—Mountain Brook Estates soon start work, by day labor, on \$60,000, 2-story and basement, brick and stone, 12-apartment; comp. roof; Denham & Denham, Archts.

Ala., Gadsden—Following additional sub-contracts awarded on \$500,000, 10-story, rein. conc., steel, brick and stone trim Hotel Printup, under construction at 7th and Broad Sts., for A. P. Reich Hotel Co., for which Day & Sachs, 2400 Avenue E., Birmingham, have general contract: Roofing and sheet metal work, Hinkle Bros.; glass and glazing, Birmingham Paint & Glass Co., 2021 Fourth Ave., N.; slag, Birmingham Slag Co.; lumber, Jefferson Lumber Co., both Comer Bldg.; medicine cabinets, Moore-Handley Hardware Co., 25 S. 20th St., all Birmingham; lathing and plastering, Floyd Jennings & Co., 132 Cain St., N. E.; tile, marble and terrazzo, Atlanta Tile & Marble Co., McGlawn-Bowen Bldg., Atlanta, Ga.; smokestack, Chattanooga Boiler & Tank Co., Chattanooga, Tenn.; stone, D. Y. Johnson Stone Co., Nashville, Tenn.; misc. iron, Decatur Iron & Steel Co., Decatur; hollow metal windows, American Sheet Metal Works, 331 N. Alexander St., New Orleans, La.; painting, Howell Bros.; brick, Agricola Brick Co.; sand, Gadsden Sand & Gravel Co.; Lehigh cement, Etowah Warehouse Co.; mail chutes, Cutler Mail Chute Co., Rochester, N. Y.; D. O. Whilldin, Archt., 515 N. 21st St., Birmingham. 2-7

Fla., St. Petersburg—Soren Lund let contract to G. A. Hanson Co., Inc., 215 Madison St., Tampa, for \$200,000, 3-story and basement, rein. conc., hollow tile and conc. Sorena Hotel addition; cast stone trim, built-up roof; 60 guest rooms, 50 rooms for hotel help; G. Lloyd Preacher & Co., Inc., Archt., Engr., Wynne-Claughton Bldg., Atlanta, Ga.

Ga., Atlanta—Ellison & James, 901 Healey Bldg., erect \$75,000, 2-story and basement, brick veneer, 16-apartment on Collier road, N. E.; comp. roof, hardwood and tile floors, steam heat; owner, Archt.-Bldr.

Ga., Atlanta—H. W. Nicholes, 142 Brighton road, N. E., erect \$100,000, 2-story and basement, 16-apartment, 13th St. and Crescent Ave.; also \$30,000, 2-story and basement, 12-apartment, Argone Ave. and 4th St., N. E.; brick, conc. tile and wood floors, comp. roofs; owner, Archt.-Bldr.

Ga., Atlanta—King Bailey, Healey Bldg., erect \$40,000, 2-story and basement, brick, 12-apartment, Peachtree and Collier roads; tile, conc. and hardwood floors, comp. roof; owner builds.

Ga., Lyons—Robert Tooms Hotel Corp. let contract to John T. Ragan & Co., Vidalia, for \$60,000, 3-story rein. and brick hotels; stone trim, built-up roof, steam heat; Greer & Biggers, Archts., Valdosta; J. Len Martin, Lessee, Waycross. 4-25

La., Alexandria—W. N. Carnahan let contract to S. J. Plache for \$20,000, 2-story 75x73 ft., brick veneer apartment, Second and Winn Sts. 5-2

La., Bastrop—North Louisiana Hotel Co., Inc., S. Shelby Meek, of Continental Trust Co., Shreveport, Pres.; Ashton Glassell, of Glassell-Wilson Co., Contrs., Bixon Ave., Shreveport, V.-P.; erect \$125,000, 3-story, 60x100-ft. hotel, Jefferson and Franklin Sts.; lower floor for 2 stores, coffee shop, dining room; 2 upper floors, 60 hotel rooms with bath; Edw. F. Neild, Archt., City Bk. Bldg., Shreveport.

Mo., Clayton, St. Louis—Frank Human erect \$15,000, 37x56 ft., frame, 4-apartment, 206 Central St.; Midland Valley Corp., Contr., Page Ave.; M. J. Tracy, Archt.

Mo., Clayton, St. Louis—William Remmert Construction Co., 7708 Shirley Dr., started excavation for 6 apartment buildings, Shirley Drive and Hanley road; \$300,000, Colonial design, 4 and 5 rooms, tiled baths, electric refrigeration.

Mo., Kansas City—A. W. Murray, care B. Elmer, Contr., 1004 W. 33rd St., erect \$200,000, 4-story, brick, 50-apartment, 15th and Wyandotte St.

Mo., Springfield—Green County Building & Loan Assn., R. A. Ollis, 408 E. Commercial St., erect \$200,000, 4-story, brick hotel and store, 412-18 E. Commercial St.; O. L. Allen, Contr., 1840 Douglas St.; Garrett Construction Co., 211½ E. Commercial St., contract for excavation; Heckenlively & Marks, Archts., Landers Bldg. 3-28

Mo., St. Louis—L. & E. Evers have permit for \$15,000, 2-story, 32 x 67 ft., brick tenement, 4989-91 Arsenal St.; paper roof, hot air heat; L. C. F. Evers, Bldr., both 4975A Arsenal St.; A. Foel, Archt., 6236 Alamo St.

Mo., St. Louis—C. A. Johnson, 2654 Armand St., erect two 2-story, 34x44-ft. brick tenements, 4530-36 Oregon St.; \$20,000; Charlson Builders, Contr., 105 S. Ninth St.; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—G. Blum, 4240 California St., erect two 2-story, 25x49-ft. brick tenements, 4916-20 Leona St.; \$12,000; comp. shingle roofs; owner, Archt.-Bldr.

Mo., St. Louis—A. Morganstern, 1152 Bayard St., has permit for two 2-story, 34x52 ft. brick tenements, 5059-64 Ruskin St.; \$19,000, tar and gravel roofs, hot air heat; D. M. Morganstern, Archt.-Bldr., 5067 N. Kings-highway.

Mo., St. Louis—E. Flickinger, 3315 Chipewa St., erect \$10,000, 2-story, 27x48-ft. brick tenement, 3932 Alberta St.; asphalt shingle roof, hot water heat; H. Lasage, Archt., 4925 Kansas St.

Mo., St. Louis—H. Leirmann, 3443 Gravois Ave., erect \$11,000, 2-story, 34 x 48 ft., brick tenement, 3443-45 Gravois Ave.; comp. roof; A. Pauli, Bldr., 3663 Batouical St.; L. J. Graham, Archt., 4885 Natural Bridge.

Mo., St. Louis—A. Stein, 7003 S. Grand Ave., erect two 3-story, 48 x 96 ft., brick tenements, 3521, 27, 31 and 37 Bingham St.; \$100,000; E. E. Christopher, Archt., 1221 Louderman Bldg.; owner builds.

Mo., University City, St. Louis—Flora B. Boerner, 8931 Olive St., erect 2-story, 27x45-ft. brick flats, 7019 and 7023 Dartmouth St.; \$15,000, comp. shingle roofs, hot water heat; J. Chapman Building Co., 5856 Delmar Blvd.; G. W. Wolf, Archt., 6635 Delmar Blvd.

Mo., University City, St. Louis—Page Investment Co. has permit for \$87,000, 3-story, 86.6 x 120 ft., brick apartment, 7334-40 Forsyth St.; comp. roof, vapor heat; Rollo-Brugnone, Contr., both 4659 Page St.; B. Shapiro, Archt., 4202 Holley St.

N. C., Winston-Salem—Connors Steel Co., Empire Bldg., Birmingham, Ala., has contract for 175 tons rein. steel for \$400,000 12-story Robert E. Lee Hotel for Winston-Salem Hotel Co.; Angle-Blackford Co., Gen.

Contr., American Exch. Bldg., Greensboro; W. L. Stoddart, Archt., 50 E 41st St., New York. 4-11

Okla., Gracemont—S. H. Drake erect \$12,000 brick hotel on Main St.; contract let.

Tenn., Nashville—Connors Steel Co., Empire Bldg., Birmingham, Ala., has contract for 250 tons rein. steel for \$1,250,000, 12-story hotel for O. F. Noel Estate; V. L. Nicholson Co., Gen. Contr., Box 661, Knoxville; Marr & Holman, Archts., Stahlman Bldg., Nashville. 5-2

Tex., Corpus Christi—A. Rossi let contract at \$70,090 to Vivrett & Vivrett for 2-story, brick, tile and stucco 8-apartment.

Tex., San Antonio—A. H. Shafer, 29 N. St. Mary's St., has contract at \$72,377 for heating, plumbing, ventilating and brine system, and Loyd-Peale & Dittmar, 1205 E. Houston St., contract at \$45,000 for electrical wiring, fixtures and radio conduit for first unit of Dittmar Apartments for which Ed. W. Oeffinger, 710 Avenue A, has general contract at \$362,320; Richard Vander Straten, Archt., 603 Travis Bldg.; Herff & Jones, Asso. Archts., 208 S. A. Loan & Tr. Bldg.; M. L. Diver, Struc. Engr., Calcasieu Bldg. 4-25

Miscellaneous

Mo., St. Louis—Pierce Petroleum Corp., E. D. Levy, Pres., 1709 Locust St., started work on first of 10 filling stations and sandwich shops; \$50,000 each; 25x100 ft., brick; Beverly T. Nelson, Archt., 403 Chemical Bldg.

N. C., Wilmington—J. O. Carr, 1901 Market St., John D. Corbett, 1710 Market St., and others organized club and let contract to W. A. Simon, 1110 S. Fourth St., for fireproof clubhouse at Harbor Island, on Bank's channel, on which work has started; J. B. Lynch, Archt., 201 N. 13th St., supervise work.

Tex., Austin—Thurlo B. Weed, 17th and Lavaca Sts., let contract to Frank R. Rundell, 107 E. 6th St., for 1-story, 13x55 ft., frame and stucco addition and remodeling and stuccoing funeral home; Edwin C. Kreisle, Archt., 803 Scarbrough Bldg. 4-25

W. Va., Wheeling—F. Schmeichel & Son Co., 2265 Market St., has permit for \$90,000, steel, brick and stone mortuary and furniture store; L. H. Green Co., Contr., Natl. Bk. of W. Va. Bldg.; George B. Cunningham, Archt., Pythian Bldg.

Schools

Ala., Anniston—Calhoun County Bd. of Education started work on combination auditorium and gymnasium at Calhoun County High School to be known as Fulton Hall; W. W. Powers, Contr. 9-13

Fla., Palm Beach—Palm Beach County Bd. of Public Instruction, West Palm Beach, let contract to McDonald, Meller & Garrish, West Palm Beach, for \$30,732 school; Wm. Manley King, Archt., Harvey Bldg., West Palm Beach. See Want Section—Building Material and Equipment.

Fla., Tallahassee—Kappa Delta let contract to Harden Construction Co., Lake City, for \$40,000 fraternity house; E. F. Fitchner, Archt., Child's Bldg., Tallahassee.

Ga., Atlanta—Oglethorpe University, Dr. Thornwell P. Jacobs, Pres., Peachtree road, let contract to George A. Clayton Co., Bona Allen Bldg., for first unit of \$750,000 stadium at Hermance Field; \$50,000, rein. conc., wood and rubble stone, Indiana limestone, Elberton granite walls; Morgan, Dillon & Lewis, Archts., Grant Bldg. 4-25

La., Lafayette—Tile Shop, Inc., 824 Carondelet St., New Orleans, has contract for tile work on auditorium under construction at Southwestern Louisiana Institute; Gervais F. Favrot, Gen. Contr., Balter Bldg.; Favrot & Lavaudais, Ltd., Archts., Hibernia Bk. Bldg., both New Orleans. 4-18

La., New Orleans—Jas. R. Sutton, 4724 Banks St., has contract for misc. iron on Merrick School for which Caldwell Bros., 816 Howard Ave., have general contract at \$244,000; E. A. Christy, Supvg. Archt. 4-25

Md., Baltimore—H. T. Booth & Co., Inc., Denrick Bldg., Washington, D. C., have contract for 2 dwellings on grounds of St. Marys Seminary, Roland Park; brick, 1½ stories, 32x40.3 ft., slate roof; R. W. Mead, Archt.

Md., St. Mary's City—St. Mary's Seminary let contract to Hastings & Parson, S. Division St., Salisbury, for \$40,000, 3-story and basement, brick dormitory; Stanislaus Russell, Archt., 11 E. Lexington St., Baltimore. 4-11

Miss., Dedaux—Harrison County School Bd., Gulfport, let contract to Garcia & Carr, Bay St. Louis, for school; Vinson B. Smith, Jr., and E. E. Norwood, Asso. Archts., Real Estate Bldg., Gulfport. 4-18

Miss., Centerville—Bd. of School Trustees, Richard J. Field, Sec., let contract at \$29,400 to W. P. Keeton, Petal, for 1-story, rein. conc., brick, stone trim elementary school; built-up comp. roof, wood floors; J. M. Spain, Archt., Millsaps Bldg., Jackson. 4-25

Miss., Waveland—Gulfside Assn., H. J. Mason, Box 103, started work on buildings at Gulfside School for Boys for recreational center and assembly grounds for negroes; work under supervision S. G. Roberts; plans include twelve 12x16 ft. comp. houses for Boy Scouts and Girl Reserves; soon call for bids for dormitory and dining hall.

Mo., Normandy—Normandy Consolidated School Dist., A. G. Skelly, 8312 Madison Ave., Vinita Park, let contract to Duffner & Stecker Construction Co., DeMenil Bldg., St. Louis, for 1-story, brick addition and alterations to Lincoln School; W. B. Ittner, Inc., Archt., 911 Locust St., St. Louis. 4-25

N. C., Louisville—Louisburg College, Dr. A. W. Mohn, Pres., let contract to Consolidated Construction Co., Durham, for rebuilding administration building; M. S. Davis, Archt. 4-25

N. C., Penland—Appalachian School, Rt. Rev. Bishop Hower, Asheville, soon start work on \$50,000, 2-story and basement, 134x33 ft., brick and conc. school; built-up roof, vapor heat; S. Grant Alexander, Archt., Box 1234, Asheville; probably day labor. 11-1

S. C., Monck's Corner—Bd. of School Trustees, Berkeley High School, let contract at \$46,700 to Lane & Lane, Mullins, for 2-story, 172-40-ft. brick school; wood floors, Barrett roof; James D. Benson, Archt., Charleston. See Want Section—Building Material and Equipment. 4-25

Tex., Austin—Fox-Schmidt, 415 W. 6th St., Austin, has contract at \$47,800 for heating and plumbing in \$450,000 gymnasium-auditorium and swimming pool at University of Texas; Ware-Ramey Co., Gen. Contr., 1614 E. Missouri St., El Paso; Herbert M. Greene, LaRoche & Dahl, Archts., Construction Bldg., Dallas. 5-2

Tex., Portland—Portland Ind. School Dist. Trustees, Fred Andrews, Sec., let contract to George H. Belote, Box 1088, Corpus Christi, for 1-story, tile and stucco, east stone trim grade school; Spanish type, cement and wood floors; Hamon & Co., Archts., City Natl. Bk. Bldg., Corpus Christi. 3-28

Tex., Vernon—School Bd. let contract at \$121,296 to Taylor Brothers Construction Co., Perkins-Snyder Bldg., Wichita Falls, for brick high school; Rittenberry & Carder, Archts., Amarillo. 4-11

Va., Low Moor—Alleghany County School Bd., J. F. Jeter, Supt., Covington, let contract at \$40,700 to Motley Construction Co., Farmville, for high school.

Va., Lynchburg—Randolph Macon Woman's College erect \$130,000 music building, to be known as Presser Hall; brick, limestone trim, fireproof, terrazzo floors, 29 practice rooms, 2 classrooms, studios; also erect \$80,000 brick power house; contract let; Wm. H. Manning, Landscape Archt., Boston.

Stores

Fla., Jacksonville—E. C. Newsom, 1850 Liberty St., erect \$20,000, 1-story and basement, 70 x 50 ft., brick, stone trim store, St. Johns Ave.; Neal D. Evans, Contr., Adair Bldg.; Carlos B. Schoeppl, Archt., 509 Florida Theater Bldg.

Fla., Jacksonville—Maxwell Sabal erect \$12,000, 1-story and basement, brick, stone trim store, Main and Phelps Sts.; C. R. Johnson, Contr.; Philip Bergman, Archt., Hildebrandt Bldg.

Fla., Lakeland—G. A. Miller, Inc., 312½ Twigg St., Tampa, has contract for \$100,000, 4-story and basement, 122x60-ft. brick and steel frame store, to be leased to S. H. Kress Co., 114 Fifth Ave., New York; comp. roof; plans by Engineering Dept., S. H. Kress Co.

Ga., Atlanta—Clark Company let contract to George Spruell for remodeling building, 82-84 Alabama St., S. W.; \$15,000, brick; DeFord Smith, Archt., 283½ Peachtree St., N. E.

Ga., Griffin—Gresham Manufacturing Co. plans to start work soon on \$85,000, 3-story, rein. conc. brick, stone trim store, Hill and Broad Sts., to be leased to Montgomery Ward & Co., Chicago; built-up roof, hardwood and tile floors, steam heat; owner builds.

Ky., Lexington—Schultz-United, Inc., 485 Fifth Ave., New York, has permit for \$80,000, 2-story and basement, brick and steel store on W. Main St.; J. T. Jackson Lumber Co., Contr., Lexington.

Ky., Louisville—L. W. Hancock, Bldr., Louisville Tr. Bldg., plans to start work soon on \$250,000 building, 636-38 S. 4th St.; plans later to erect 12 additional stories.

La., Shreveport—S. J. Harman, 118 Milam St., let contract at \$11,494 to H. C. Bellows, Ricou-Brewster Bldg., for 1-story brick store, Texas and Hope Sts.; M. D. Weeks, Archt., Ardis Bldg. 4-25

Md., Frederick—Robert L. Shipley and O. Leonard Storm soon start work on remodeling store, Second and Market Sts.; front of building to be reconstructed of brick and walls raised to make building 3 stories; interior improvements; Lloyd C. Culler, Contr.

Mo., St. Louis—Weinberg Construction Co., 816½ Chestnut St., reported, erect business building, Kingsland and Enright Aves.

Tenn., Memphis—William White let contract to S. & W. Construction Co., Shrine Bldg., and soon start work on remodeling 3-story brick and conc. store, 25 Second Ave., south; Hanker & Cairns, Archts., 123 S. Court St.

Tex., Beaumont—Beaumont Implement Co., H. A. Perlstein, 252 Faustin St., has permit for \$20,000, 1-story, 75x140-ft. brick building; Herman Weber, Contr., Perlstein Bldg.; A. Babin, Archt., Blanchette Bldg. 4-25

Tex., Dallas—A. B. Couch, 3404 Roberts St., soon start work on 2-story, brick, stone trim store and office, McFarlin Blvd. and Hillcrest Ave., University Park; corner store for University Pharmacy, Spanish balcony at rear of drug store for fountain to have hardwood floor; upper floor, 16 offices; W. Lee Morris, Contr., 2439 Swiss St.; F. J. Woerner & Co., Archts., Central Bk. Bldg.

Tex., Georgetown—J. D. Jenkins let contract to D. E. Davis for 2-story brick building on 8th St. 4-18

Tex., Harlingen—E. H. Buck has contract for \$35,000 addition to store for G. Dallal and \$13,250 addition to building for G. Lano & Sons.

Tex., Port Arthur—Deutser Dry Goods Co., J. Deutser, Pres., started rebuilding store damaged by fire at loss \$21,500. 4-18

Theaters

Tex., Dallas—C. W. Snider started work on \$150,000 five-story and theater building, Snider Plaza near Rosedale St., University Park; theater to seat 1011 people, to be named Varsity, to be operated by Paul Scott; brick, steel frame, fireproof, ornamental tile cornices, cut stone trim.

Tex., Dallas—R. L. Hardy, Slaughter Bldg., A. B. Couch, 3404 Roberts St., and others started work on \$125,000 Mustang Theater, Hillcrest Ave. and McFarlin Blvd., to be leased to R. J. Stinnette; 2 stories; W. Scott Dunne, Archt., Melba Bldg. See Contracts Awarded—Stores.

Tex., San Angelo—J. U. R. Realty Co., San Angelo, let contract to Allen F. Marshall, Box 291, San Angelo, for \$250,000, 183 x 65-ft., 3-story, brick, rein. conc. and stone theater, to be leased to R. & R. Theatre Enterprises, 2009½ Jackson St., Dallas; seat 2000 people; W. Scott Dunne, Archt., 206 Melba Bldg., Dallas. 4-25

Warehouses

Ala., Birmingham—Wittichen Transfer & Warehouse Co., 2329 First Ave., N., has permit for \$12,000, 100x140 ft., brick and steel warehouse, Avenue B and 16th St.; Smallman Construction Co., Contr., 1109 Fifth Ave., S.

Fla., Miami Beach—Miami Beach Gas Co. has permit for \$10,000 warehouse and showroom, 41st St. and Sherman Ave.; Mead Construction Co., Contr., 1043 Lincoln Rd.

Ga., Atlanta—Lane Drug Stores, Inc., 377 Whithall St., let contract to Capitol Construction Co. for \$140,000, 2-story and basement warehouse, Fifth St. between Spring and W. Peachtree Sts.; 60,000 sq. ft. floor space; rein. conc., struc. steel, brick, stone trim, built-up roof, steam heat; Pringle & Smith, Archts., Norris Bldg.

Mo., St. Louis—H. Chouteau has permit for \$60,000, 1 and 2-story, 290 x 113 ft., brick warehouse, 1409 Howard St.; tar and gravel roof; J. W. Morison, Bldr., both 722 Chestnut St.; Aegeter & Bailey, Archts., Rwy. Exc. Bldg.

Tenn., Memphis—International Harvester Co. of America, W. C. Maney, Local Mgr., has permit for \$40,000, brick addition to building, 22 W. Carolina St.; H. A. McGuire & Co., Contrs., Dermon Bldg.

Trade Literature

Construction Material.—Three brochures of genuine informative value and interest come from the Maryland Metal Building Company, Baltimore, Md., producer of Lyonnore metal: "Airport Buildings and Their Construction," "Engineers' and Architects' Catalog" and "General Building Catalog." In the first the company describes the products, the work and the service of its airport equipment division, with pictures of hangars and other structures provided by the Maryland Metal Company at Philadelphia, Pa., and other places. The second tells of "the advantages of standardized sectional metal building construction" and gives pictures, charts, diagrams, specifications and other information. The title, "Engineers' and Architects' Catalog," describes the nature of the information within its covers. "Built for permanence" is the word of the company.

Washers.—Assertion that Hobart industrial washers "are doing almost every kind of cleaning job imaginable" introduces a folder issued by the Hobart Manufacturing Company, Troy, Ohio, on that product. Hobart washers are being used to clean pins, dental burrs, crank cases, cocoanuts, sardine cans, clock parts, automobile bodies, among other things.

Power Transmission.—"Reducing the Cost of Power Transmission" is the title of a booklet, 102 A, in which the Diamond Chain & Manufacturing Company, Indianapolis, Ind., describes advantages of Diamond roller chain as "a more dependable and frictionless link" at the connection between the driving and the driven shafts. Illustrations supplement the reading material.

Tanks.—Emphasis on a new form of steel tank construction and the new Scaife invisible seam tank is expressed in a pamphlet, Scaife Steel Tanks, by the Wm. B. Scaife & Sons Company, Pittsburgh, Pa. Patents are owned by the company on longitudinal butt seam, and patent has been asked for head construction.

Water Wheels.—Leffel water wheels are described in bulletin W202, issued by James Leffel & Co., Springfield, Ohio, with an office at Atlanta, Ga., among others. Installation at the Rammel dam, on the Ouachita River, of the Arkansas Light & Power Company is pictured and other important installations are described.

Sanders.—Under the legend, "A sander for every surface," a comprehensive booklet has been issued on Syracuse sanders by the Porter-Cable Machine Company, Syracuse, N. Y. Numerous types are described, with specifications, advantages and other details, illuminated with illustrations.

Cranes.—On the theory that "it isn't the first cost of the crane that counts, but the after-cost," the Whiting Tiger Crane has been developed by the Whiting Corporation, Harvey, Ill., and is described in detail, with illustrations and specifications, in a booklet issued by the company. Numerous users of the Tiger crane are mentioned.

Reading Iron Change.

The Reading Iron Company, Reading, Pa., announces the removal of its general sales offices from the Baer Building, Reading, to the New York Central Building, New York City.

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Machinery and Supplies

Canning Equipment.—Lakeport Farms, Inc., A. L. Mathews, Gen. Mgr., P. O. Box 356, Sebring, Fla., developing large tract of land and plan establishing canning plant—Wants prices from vegetable canning machinery manufacturers.

Cement Roofing Tile Manufacturing Machinery.—Richard N. Keeton, Cherokee, Ala.—Wants prices and data on machinery for producing cement roofing tile.

Evaporator.—Alex M. Robinson (Mehy, Dealer), Georgetown, Ky.—Wants prices and data on single effect evaporator to reduce 2500 gal. of cider to approx. 500 gal. in ten hours, new or used.

Moss Preparing Machinery.—Baxter Morrison, Inverness, Fla.—Wants prices and data on machinery for preparing Spanish or grey moss for market.

Paint Manufacturing Equipment.—Southern Plate Glass & Paint Co., 331-333-335 N. Magnolia St., Ocala, Fla.—Wants prices and data on equipment for making paint on small scale.

Plow Handle Manufacturing Machinery.—J. D. Gray, Woodford, Va.—Wants prices and data on plow handle manufacturing machinery.

Textile Machinery.—L. Earl Browder, Sec., Marion Chamber of Commerce, Marion, N. C.—Wants prices and data on tubing machines for knitting rayon underwear material and on machinery for weaving rayon cloth.

Tractors and Road Building Machinery.—Onondaga Development Co., R. E. Bradford, Mgr., Leasburg, Mo., developing Onondaga Caves, and wants tractors and road building machinery.

Paper Box Manufacturing Machinery.—C. M. Tanner, Jr., P. O. Box 225, Carrollton, Ga.—Wants prices and data machinery for manufacturing small paper boxes for hosiery, shirts, etc.

Searchlight Metals Mfg. Corp., P. O. Box 705, Richmond, Va.—Wants prices and data on following:

- (1) **Fire Brick**—for furnaces, high degree of heat
- (2) **Brass Furnaces**—oil fired
- (3) **Burners**, etc.

Terrence P. Wynn, 151 W. 66th St., New York City—Wants prices and data on following:

- (1) **Cable (Wire)**—2¼, 2½ or 2% diameter, 800 ft. or longer, used
- (2) **Hoists**—electric or steam, 10x12 or larger, Flory Mfg. Co. only.

W. H. Mason, 117 W. Pomona St., Philadelphia, Pa.—Wants prices and data on following used equipment:

- (1) **Cars (Dump)**—4-yd., Western
- (2) **Cranes (Locomotive)**—30-ton or larger, standard gauge, and 15-ton, 4-wheel
- (3) **Locomotive (Gasoline)**—6 to 8-ton, 36-in. gauge
- (4) **Shovel**—gasoline, crawler type, late model.

W. S. Dickey Clay Mfg. Co., Box 1084, Kansas City, Mo.—Wants prices and data on following:

- (1) **Brick Machine**—large auger
- (2) **Pug Mill**
- (3) **Rotary Dryer**—direct heat, used.

W. W. Lawrence, Patoka, Ill.—Wants prices and data on machine for making key checks and to stamp on them name and address of individual purchasers; as nearly automatic as possible.

Miscellaneous.

Airport Equipment and Supplies.—Middle Georgia Fair Association, Inc., C. B. McCular, Sec., Milledgeville, Ga.—Wants prices and data on airport equipment and supplies.

Drop Forgings, etc.—Ever-Ready Pump Co., J. A. Mebane, South Boston, Va., plans manufacturing special tools, pipe wrenches, etc.—Wants prices and data from manufacturers of drop forging, cast steel, and malleable iron; also nickel plating firms.

Metal Signs.—R. O. Crawford & Co., Inc., R. C. Crawford, Pres., Gastonia, N. C.—Wants prices and data on metal signs for real estate developments.

Tanks (Steel).—Southland Cotton Oil Co., Paris, Tex.—Wants prices and data on used steel tanks, 80 to 1600 bbl. capacity, suitable for storing cottonseed oil in outside locations, thick sheeting, metal tops; dimensions and heights immaterial.

Building Material and Equipment

Rev. Edw. J. Rees, Pastor, Methodist Church, Oxford, N. C., wants prices on following for \$15,000 Sunday School:

Seating—16 light oak pews, curved backs, seat 8 to 10.

James D. Benson, Archt., Charleston, S. C., wants prices on following for Berkeley High School, Monck's Corner, S. C.:

Cast Stone
Flooring—tile
Roofing (flat)—built-up
Steel Sash and Trim.

Wm. D. Van Sichen, Archt.-Engr., 9 Maltby Bldg., Brownsville, Tex., wants prices on following for 21-apartment for M. E. Bogue:

Cast Stone
Electric Refrigerators
Flooring—linoleum
Incinerator
Roofing (flat)—built-up, tile
Steel Sash.

Camassa Construction Co., 209 Lakeview Ave., West Palm Beach, Fla., wants prices on following for \$35,000 dwelling:

Flooring—tile, composition
Metal Ceilings
Roofing—tile
Steel Sash and Trim
Tile—hollow
Terra Cotta Trim.

S. Boutin, Contr., 443 N. Frederick St., Cape Girardeau, Mo., wants prices on following for \$35,000 Sunday school:

Flooring—linoleum, tile
Marble
Roofing—asbestos shingle
Steel Sash and Trim.

Dr. A. Magruder MacDonald, 800 Twelfth St., N. E. Washington, D. C., wants prices on following for \$35,000 residence:

Electric Refrigerators
Flooring—hardwood, linoleum, terrazzo, tile
Incinerator
Limestone
Metal Doors
Plaster Board
Roofing—slate, tile
Steel Sash and Trim
Tile—hollow, interior
Ventilators
Wire Glass
Brass and Bronze Work.

R. C. Springer, Archt., Rosenbaum Bldg., Meridian, Miss., wants prices on following for \$30,000 apartment for C. J. Lanahan:

Electric Refrigerators.
C. H. Lauck, Mena, Ark., wants prices on following for residence:
Flooring—hardwood, linoleum, tile
Roofing—slate, tile.

The John W. Cowper Co., Inc. (Engineers Contractors), State Planters Bank Bldg., Richmond, Va., bidding on bleachery for Rock Hill Printing & Finishing Co., Rock Hill, S. C., and wants sub bids and material prices on this work by May 13th at office of contractor.

Jas. C. Hampton, P. O. Box 26, Englewood, Tenn., wants prices on following for residence:

Flooring—hardwood, linoleum
Plaster Board
Roofing—asbestos shingle, asphalt shingle
Steel Sash and Trim
Wire Glass
Brass and Bronze Work.

Wm. Manley King, Archt., Harvey Bldg., West Palm Beach, Fla., wants prices on following for \$30,000 junior high school, Palm Beach:

Cast Stone
Flooring—hardwood, linoleum
Metal Doors
Roofing—tile
Steel Sash and Trim
Ventilators
Wire Glass.

Jas. Ming, Sec., Brownwood Masonic Bodies, Brownwood, Tex., wants prices on following for \$35,000 to \$40,000 temple:

Elevators
Flooring—hardwood
Metal Ceilings
Rolling Partitions.
Study & Farrar, Archts., Arcade Bldg., St. Louis, Mo., want prices on following for \$60,000 dwelling:

Electric Refrigerators
Flooring—hardwood, terrazzo, tile, composition
Incinerator
Limestone
Marble
Roofing—slate.

A. R. Hoover, Concord, N. C., wants prices on following for \$25,000 residence:

Flooring—hardwood, tile
Plaster Board
Roofing (hip)—slate
Steel Casements
Tile—hollow.

Jos. W. Northrop, Jr., Archt., Kirby Bldg., Houston, Tex.—Wants prices on following for \$31,000 dwelling:

Electric Refrigerators
Flooring—hardwood, linoleum, tile
Roofing—slate.

Bids Asked

Airplane.—Dept. of Commerce, Div. of Supplies, Washington, D. C.—Bids May 15 for light commercial airplane.

Ammunition.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids May 16 for 5,000,000 rounds ammunition, .22 caliber, delivery Philadelphia, Pa., and San Francisco, Calif.

Automobile Parts.—Post Office Dept., Pur. Agt., Washington, D. C.—Bids May 20 for repair parts for motor trucks, during fiscal year 1930.

Belting.—Post Office Dept., Pur. Agt., Washington, D. C.—Bids May 17 for 35 ft. rubber canvas conveyor belting.

Bolt Trimmer Machine.—U. S. Navy Bureau of Supplies and Accounts, Washington, D. C.—Bids May 14 for bolt trimmer machine.

Bridge.—Annapolis, Md. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Anson, Tex. See Construction News—Roads, Streets, Paving.

Bridge.—State of Arkansas. See Construction News—Roads, Streets, Paving.

Bridges.—State of Tennessee—Bids for 24 bridges. See Construction News—Roads, Streets, Paving.

Bridge.—Jeanerette, La. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—State of Arkansas. See Construction News—Bridges, Culverts, Viaducts.

Bridges.—State of Arkansas. Bids for 14 bridges. See Construction News—Roads, Streets, Paving.

Bridge Building Material.—State Road Dept., Robert W. Bentley, Chmn., Tallahassee, Fla.—Bids May 15 for 105 M.F.B.M. 12-in. creosoted timber and about 6020 lin. ft. crushed piling lengths, 20 to 55 ft.; 4.67 M.F.B.M. 12-in. creosoted timber, consisting of 400 pieces 2x4x21-ft., 4-in. S4S bridge flooring; J. L. Cresap, State Highway Engr.

Bridges.—State of Louisiana. Bids for 3 bridges. See Construction News—Roads, Streets, Paving.

Coal.—Q. M. Supply Officer, Ft. Sam Houston, San Antonio, Tex.—Bids May 15 for coal, various deliveries.

Diesel Engine Generating Unit.—Easton Utilities Comm., John S. McDaniel, Pres., Easton, Md.—Bids May 27 for air injection full Diesel engine, d. c., 3 phase, 60 cycle, a. c. generator, for municipal electric plant.

Dipper Dredge Cable.—Panama Canal, Gen. Pur. Officer, Washington, D. C.—Bids May 11 for dipper dredge cable, Sch 2485.

Earthwork.—U. S. Engr. Office, McCall Bldg., Memphis, Tenn.—Bids May 22 for constructing about 2,836,000 cu. yd. earthwork, Mound City, Ill., and in Reelfoot and Lower St. Francis Levee Districts. See Construction News Columns—Miscellaneous construction.

Elevator.—Bd. of Awards, Office of City Register, City Hall, Baltimore, Md.—Bids May 15 for electric passenger elevator for Forest Park Senior-Junior High School, Hawthorne and Clarendon Ave.

Gravel.—State of Arkansas. See Construction News—Roads, Streets, Paving.

Hardware, etc.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids May 16 for hardware, etc., delivery Quantico, Va.

Kraft Paper.—U. S. Engr. Office, McCall Bldg., Memphis, Tenn.—Bids May 15 for approx. 270,000 lb. kraft paper.

Label Paper.—Post Office Dept., Pur. Agt., Washington, D. C.—Bids May 15 for 10,000 lb. wood manila label paper.

Magnetos.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids May 13 for 10 magnetos, (4 cylinders), delivery Quantico, Va.

Miscellaneous.—Panama Canal, Gen. Pur. Officer, Washington, D. C.—Bids May 18 for following: Sch. 1939: Portable air compressor, submarine hammer drill and accessories, air hoist, drill steel sharpener and accessories, oil furnace, drill steel, etc.

Outboard Motors.—U. S. Engr. Office, Huntington, W. Va.—Bids May 13 for outboard gasoline motors, with magneto ignition.

Paving.—Asheville, S. C. See Construction News—Roads, Streets, Paving.

Paving.—Dallas, Tex. See Construction News—Roads, Streets, Paving.

Pipe (Riveted Steel).—Sewerage and Water Bd., New Orleans, La.—Bids June 19 for Contr. 105-D, furnishing and erecting riveted steel pipe for drainage system; Geo. G. Earl, Gen. Supt.

Pipe (Reinforced Concrete).—See Sewers.

Pipe (Vitrified).—See Sewers.

Pipe (Cast Iron), etc.—Sewerage and Water Bd., New Orleans, La.—Bids June 26 for Contract 104-S, furnishing c. i. pipe, special castings, and pure iron pipe and fittings and Contr. 105-S, laying 36-in., 42-in. and 48-in. c. i. pressure main; Geo. G. Earl, Gen. Supt.

Portland Cement.—Panama Canal, Gen. Pur. Officer, Washington, D. C.—Bids May 22 for portland cement, Sch. 1961.

Pump Casing, etc.—U. S. Engr. Office, Jacksonville, Fla.—Bids May 15 for carbon steel dredging pump casing, 6 suction side steel plate liners, 6 engine side steel plate liners, 2 carbon steel runners complete and forged nickel steel runner shaft.

Red and White Lead.—U. S. Engr. Office, Huntington, W. Va.—Bids May 18 for red and white lead.

Reinforcing Steel.—U. S. Engr. Office, McCall Bldg., Memphis, Tenn.—Bids May 20 for furnishing 100,000 pieces rebar, fabric for conc. slabs.

Road.—Anson, Tex. See Construction News—Roads, Streets, Paving.

Road.—Fort Sam Houston, San Antonio, Tex. See Construction News—Roads, Streets, Paving.

Roads.—State of Virginia, Bids for 4 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Arkansas—Bids for 8 roads. See Construction News—Roads, Streets, Paving.

Roads.—Towson, Md. Bids for 6 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Arkansas. Bids for 7 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Kentucky—Bids for 49 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Tennessee, Bids for 11 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Maryland, Bids for 9 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Florida—Bids for 3 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of South Carolina. Bids for roads. See Construction News—Roads, Streets.

Roads.—State of Louisiana. Bids for 20 roads. See Construction News—Roads, Streets, Paving.

Sewers.—Bd. of Awards, Baltimore, Md.—Bids May 15 for sanitary sewers and storm drains, Dists. H-9, 1-7 and J-S, Storm Water Contr., 120; work includes 200 ft. of 36-in., 804 ft. of 27-in., 1116 ft. of 24-in., diam. rein. conc. pipe drain; 1306 ft. of 18-in., 3350 ft. of 15-in., diam. vit. pipe sewer drains, etc.; Milton J. Ruark, Sewerage Engr.

Silk (Sewing).—Marine Corps, Q. M. Dept., Washington, D. C.—Bids May 16 for 11,500 spools sewing silk, delivery Philadelphia, Pa.

Steel Forms.—U. S. Engr. Office, Vicksburg, Miss.—Bids May 16 for 1200 steel forms, 25x4 ft.

Street.—San Antonio, Tex. See Construction News—Roads, Streets, Paving.

Switchboard, etc.—Comms., Dist. of Columbia, Washington, D. C.—Bids May 17 for electrical switchboard and auxiliary equipment.

Tags.—Post Office Dept., Pur. Agt., Washington, D. C.—Bids May 17 for 37,500 manila tagboard tags.

Tractors and Graders.—Ben M. Sawyer, Ch. Highway Commr., Columbia, S. C.—Bids May 14 for wheel tractors and road graders.

Truck Chassis.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids May 14 for truck chassis, complete, delivery Philadelphia, Pa.

Water Works.—Easton Utilities Comm., John S. McDaniel, Pres., Easton, Md.—Bids May 20 for drilling or sinking well 1100 ft. deep to produce at least 500 G. P. M. for water system.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Union Carbide Office.

The Chicago district and central division offices of various units of the Union Carbide and Carbon Corporation, New York, have been moved to the new Carbide and Carbon Building, Michigan avenue and South Water street, Chicago. These units are: Linde Air Products Company, Prest-O-Lite Company, Inc.; Oxweld Acetylene Company, Oxweld Railroad Service Company, Union Carbide Sales Company, Carbide and Carbon Chemicals Corporation, National Carbon Company, Inc.; Haynes Stellite Company, J. B. Colt Company and Acheson Graphite Company, these subsidiaries manufacturing oxygen, acetylene, acetylene generators, cutting and welding equipment, carbon products, batteries, flashlights, chemicals, cutting tools and a number of other products.

Southern Manufacturing Costs.

In "a comparative analysis of manufacturing costs in North Carolina and Pennsylvania," the Seaboard Air Line Railway, through a concise pamphlet, gives figures for full-fashioned hosiery as follows: For 12-machine plant, with annual production of 45,000 dozen pairs seven-strand, 42-gauge stockings, with mercerized welt and sole, profit per dozen in North Carolina city is \$1.75, or 18 per cent; in Pennsylvania city "A," 17 cents, or 2 per cent; in Pennsylvania city "B," 85 cents, or 9 per cent. Overhead and material are given at the same level in all three cities, but in the North Carolina city the labor is \$1.17 per dozen, as against \$2.78 in one Pennsylvania city and \$2.14 in the other. "Forty-five per cent lower labor costs in the South" is the subject of the pamphlet.

Lugged Refractory Brick Linings.

The use of lugged refractory brick as a new method of building refractory linings has been introduced by the Covell Corporation, Philadelphia, Pa. The lugs provide openings in the brick which are filled with refractory joint material by a cement gun, this method, called Co-Weld-Cor, reversing the tradition that "the thinner the joints, the better the wall." The method can be used also for lining cupolas, blast furnaces, open-hearth furnaces, coke ovens or other units in which refractory brick is used and is applicable to masonry construction in general. Charles E. Covell, formerly with the Austin Company, Cleveland, is president of the company, and Earl D. Covell, inventor of the method, is vice-president.

Navy Auction Sale.

Wide ranges of articles are offered at public auction on May 22 at 10 A. M. by the Navy Department at the Boston Navy Yard, as advertised in this issue of the MANUFACTURERS RECORD, information being obtainable from the department bureau of supplies and accounts at Washington and Walter E. Guyette & Co., 53 Central street, Lowell, Mass., auctioneers. In the list are approximately 1,764,500 pounds of ferrous metals, 450,000 pounds of non-ferrous, wire and cable, wire rope, electrical material, motor generators, taps and dies, fire brick, pipe fittings, drills, rivets and washers, screws, bolts and nuts, engines, searchlights, small boats and many other items.

Central Power and Light Service.

Survey of the activities of the Central Power and Light Company in south and southwest Texas in 1928 shows that at the close of the year 151 communities were being served, a net gain of 27 over 1927. Electric customers increased from 45,464 to 48,225; water customers from 12,406 to 13,422, and customers using electric ranges from 2236 in 1927 to 3052. Through a typographical error the figures as to the number of communities served and the number of customers using electric ranges were incorrectly quoted in an item on the annual report of the company, published in the Industrial News column, April 25.

Machinery and Equipment Sale.

Machinery and equipment of the Butler Bolt and Rivet Company, Butler, Pa., to be sold at public auction early in June, are described in the advertising pages of this issue. A complete descriptive illustrated auction catalogue can be obtained from the Industrial Plants Corporation, auctioneers, appraisers and liquidators, 25 Church street, New York. Among the items are Menville & Farrel cold headers, cold trimmers, flash bolt trimmers for hot bolts, cold punched nut machines; bar, guillotine and alligator shears; belt and motor driven lathes, electric hoists, tool room equipment, raw material and supplies, and so on.

Pennsylvania-Dixie Cement.

The Pennsylvania-Dixie Cement Corporation announces the removal of its New York offices to 521 Fifth avenue, at Forty-third street. The telephone number is given as Vanderbilt 7600.

Delta-Star Electric Expands.

The Delta-Star Electric Co., Chicago, is increasing its manufacturing and distribution facilities, according to H. W. Young, president, who announces the purchase of the Champion Switch Co., Kenova, W. Va. Manufacturing arrangements have been completed with the Societe D'Installations et de Constructions Electriques et Mecaniques, Boulogne-sur-Seine, to manufacture and distribute Delta-Star equipment in France and its colonies, and the company has acquired an interest in the Monarch Electric Co., Ltd., of St. Johns, Quebec, which will soon be operated as the Monarch Delta-Star Co. A complete line of Delta-Star equipment will be manufactured at the Canadian factory, in addition to the present switching equipment, switchboards, oil circuit breakers and oil switches. New designs of large capacity oil breakers for voltages up to 132-kv. will be added soon. The Delta-Star production will be handled by its established sales organization, while the Champion Switch Co. will be operated as a separate unit with its own sales organization. The St. Johns factory will handle all business for Canada and the British possessions and the French factory will have its own sales organization. With this set-up the Delta-Star company plans to meet domestic and foreign requirements for air and oil break switching or substation equipment.

Explosives Bulletin Service.

In the March bulletin of its Explosives Service series, the E. I. du Pont de Nemours & Co., Inc., Wilmington, Del., gives an idea of the scope and detail of this service as it has been carried on for six years by the technical section of the explosives department of the company. Starting with July, 1923, the subject and title of each bulletin issued to December, 1928, are given, covering coal mining, metal mining, quarrying, tunneling, general and miscellaneous uses. The bulletins are designed "faithfully to set down the new things and the best methods as developed by these technical men," and they constitute an unusual record of a valuable presentation of data.

New Aeronautics Periodical.

Described as a technical and financial review, "Aero Analyst" makes its initial appearance with an April number, "to meet an insistent demand for an aero review based on precise and analytical lines." The issue has much of interest in various lines of information, and also discusses the question: Is consolidation the answer to aviation's organization problem? The periodical is published by the Aero Engineering and Advisory Service, Inc., Chanin Building, New York.

Memorial to Colonel Sullivan

At a meeting held recently at Bogalusa, La., by friends of the late Colonel W. H. Sullivan, prominent in the Great Southern Lumber Company and other industrial activities, it was decided to establish a memorial for him in the form of a manual training school for boys, as appropriate to his great interest in the proper development of youth. The committee plans to raise \$25,000, and subscriptions will be received by D. T. Cushing, general manager of the Great Southern Lumber Company, or Mayor Edward R. Cassidy of Bogalusa, treasurer of the William Henry Sullivan Memorial Association.

Plant Expansion Under Way on 33rd Birthday.

Organized 33 years ago, the Taylor Iron Works & Supply Company, Macon, Ga., celebrated its birthday May 1. It has grown from a small workshop to the present organization comprising 250 men and W. H. Harris, foreman of the foundry, has been with the company during its entire career. Expansion of the plant now under way includes the creation of a structural steel shop with two additional buildings. Officers are: W. Andrew Taylor, president; C. A. McAllister, vice-president; F. E. Adams, secretary-treasurer; G. W. Fulghum, manager supply department, and W. P. Fleming, chief engineer. Mallory Pedingfield, manager Baltimore branch of the Chicago Nipple Manufacturing Co., who has known the company since its organization, was among those extending birthday congratulations.

Novo Distributors.

The Novo Engine Company, Lausung, Mich., announces that the following have become Novo distributors, handling the Novo hoists, drag lines, engines, pumps, lighting units and similar equipment: Jersey Contractors Equipment Co., Plainfield, N. J.; Fitzgerald & Hudson, New York City; Fred Lemcke, Jackson, Mich.; Wylie Bros., Inc., Tulsa, Okla.; R. L. McDonald, Inc., Springfield, Mo.; Anderson Tractor & Equipment Co., Biltmore, N. C.; Tennessee Tractor Co., Nashville; Mine & Smelter Equipment Co., Phoenix, Ariz.; Lund & Co., Salt Lake City, Utah. Also, R. T. McClelland, Inc., Oakland, Cal., are now located in San Francisco and are known as Krantz-McClelland, Inc.

Gulf, Mobile & Northern.

On total operating revenues of \$7,510,349.51, net operating revenues of \$2,109,991.01 and gross income of \$1,584,693.63, the annual report of the Gulf, Mobile & Northern Railroad Company for 1928 shows a surplus of \$956,526.88. Freight revenue increased 6.36 per cent to \$6,825,960, while passenger revenue was \$546,553.88, virtually the same figure as in the previous year. The company owns 434 miles of road and operates a total mileage of 733.88. I. B. Tigrett is president.

Installs New Kiln.

The Lenoir Chair Company has installed a new type, high-powered Moore reversible cross-circulation fan kiln at its Lenoir, N. C., plant, to season high-quality hardwood furniture stock. These kilns are made by the Moore Dry Kiln Company, Jacksonville, Fla., and North Portland, Ore.

Western Screw Representatives.

Announcement is made by the Western Screw Products Company, St. Louis, Mo., of the appointment of Jenkins Brothers as Southern sales representatives, at Columbia, S. C., and of F. J. Keller Company as Southwestern sales representatives, Capps Building, Fort Worth, Texas.

Bollenbacher Opens Office.

E. H. Bollenbacher, formerly with McClenan & Junkersfeld, Inc., engineers, New York, has opened an office in Atlanta, Ga., as manufacturers' representative for the following companies: The Liquidometer Co., Inc., Long Island City, N. Y.; Automatic Temperature Control Co., Philadelphia, Pa.; Sundh Electric Co., Inc., Newark, N. J., and Ajax Electric Hammer Corporation, New York.

Wheeling Steel Quarter.

Profit from operations, after deducting repair and maintenance charges and Federal tax, of the Wheeling Steel Corporation and subsidiary companies for the first quarter of 1929 are reported at \$3,023,942.11, with a net profit of \$1,795,243.35 available for dividends. The surplus of \$13,033,085.84 as of January 1 increased to \$14,166,009.19 as of March 31.

South Made More Iron and Steel in 1928.

According to the latest statistics of the American Iron & Steel Institute, production of all kinds of finished rolled iron and steel in the South amounted to 4,345,000 tons in 1928 as compared with 3,610,000 tons in 1927. Production for the United States in 1928 was 37,662,000 tons as compared with 32,879,000 tons in 1927. Last year's output was the highest in several years.

Brochure on Glass.

Under the title, "Glass by Mississippi," a remarkably fine and informative brochure has been issued by the Mississippi Glass Company, Mississippi Wire Glass Company, New York, treating of polished wire glass, polished figured wire glass, polished figured glass and plain figured glass, products of the concerns. Besides the story of the Mississippi Glass Company, the subjects include illumination in modern industrial buildings, a list of Mississippi glass products, giving thicknesses, sizes, weights, etc.; information on glazing, the importance of wire glass in fire protection, facitrolite as an aid to industry, syenite, and so on, with tables and specifications and illustrations.

\$3,000,000 Expansion for Dallas Power Plant

Dallas, Tex.—To meet an increasing demand of industries for electric power, the Dallas Power & Light Co. is expanding its generating facilities at a cost of approximately \$3,000,000. The capacity of the plant will be increased from 57,500 kilowatts to 82,500 kilowatts. A new turbine will be installed and a second concrete smokestack erected. The spray pond will be enlarged 25 per cent, giving it a capacity of approximately 120,000 gallons of water a minute. All pumps and auxiliary machinery will be installed in duplicate to insure continuity of service. The company has expended \$2,500,-

000 since 1925 for placing its downtown power and light lines underground and will continue this work as the business district expands. It has also made large expenditures for underground work in the vicinity of its six substations in Dallas.

Onions From South Texas

Heavy shipments of Bermuda onions from south Texas through Galveston to New York are reported in the Shippers Digest, which places the quantity at approximately 50 carloads a week. The bulk is reported to have originated in the Laredo section along the Rio Grande, Winterhaven and Raymondville.

Prosperity In The Dairy Industry

With the South enjoying at least its proportionate share of the dairy prosperity of the country, the Department of Agriculture reports that "the increase in consumption of dairy products in the United States in recent years has given the American dairy industry a practically uninterrupted period of financial well-being during a time when other agricultural industries have had periodical ups and downs." Not only are the people using more milk, butter, cheese and ice cream and condensed and evaporated milk than 10 years ago, but also "there are today nearly 15,000,000 more mouths to feed" than 10 years ago, says the department.

Each person now is consuming approximately 13 gallons more milk per year than in 1919, three pounds more butter, one pound more cheese, two pounds more condensed and evaporated milk and half a gallon more ice cream. Increase in consumption of dairy products is attributed by the department to increasing appreciation of the value of dairy products in the human diet and steady improvement in the quality of these products. Cream and ice cream are freely purchased by persons who used to consider them luxuries and the availability of strawberries, peaches and other fruits practically throughout the year has stimulated such consumption.

A bulletin, No. 25-S, "Dairy Statistics," covering practically all phases of the dairy industry in the United States and 23 foreign countries, may be obtained from the Department of Agriculture, Washington, D. C.

Will Add Five Stories to Office Building in Tulsa

Tulsa, Okla.—General contract has been awarded to the Rucks-Brandt Construction Co. to build five additional stories on the 10-story Mid-Continent Building here, according to an announcement by Thompson Bros. & Hughes. The 115 offices in the additional stories have been leased for a period of years to the Transcontinental Oil Co. A. M. Atkinson, who assisted in designing the original structure, is the architect for the addition. Financing details are being handled by the Braniff Investment Co.

European Business Continues to Consolidate

Rapid spreading of the cartel movement throughout Europe, even into the smaller industrial countries of the continent, is disclosed in the various reports on current economic developments in foreign countries made to the National Industrial Conference Board, New York, by its foreign correspondents, whose special reports constitute part two of the

board's second semi-annual volume on world economic conditions, just published. Cognizance is also taken of the American economic penetration of Europe, indicating a significant reversal of the flow of capital and industrial enterprise between the two continents; governmental policies in the various countries relating to industry and trade and the international economic implications of such policies are discussed in detail. A summary picture of economic progress in each country is contained in the first part of the volume, giving data on production, wages, employment, prices, foreign trade, public and private finance.

Plan \$750,000 Hotel and Theater

Abilene, Tex.—David S. Castle Co., this city, are architects for a \$750,000 16-story structure to be erected here to house a hotel and a theater. H. O. Wooten is the owner of the proposed building, which will be of brick, stone, steel and reinforced concrete. The theater, which will be the equivalent of four stories, will have a seating capacity of 1600. The Dent Theatres, Inc., Dallas, will lease the theater.

Tulsa Bank Merger Involves \$4,000,000 Capital

Tulsa, Okla.—The merger of the Exchange National Bank, Exchange Trust Co. and the Central National Bank & Trust Co., as announced here, will involve a combined capital stock of \$4,000,000. The combined deposits in the three institutions are estimated at \$61,000,000 and combined resources at approximately \$73,000,000.

St. Louis Bonds Bring Premium

St. Louis, Mo.—The city has sold \$2,000,000 4½ per cent bonds for completing the new water works plant at Howard Bend, for \$2,003,160, to a combination of brokerage houses composed of Stifel, Nicolaus & Co., St. Louis, and four New York firms, Halsey, Stuart & Co., Eldredge & Co., R. W. Pressprich & Co. and N. J. Van Ingen & Co.

\$3,850,000 State Notes Sold

Raleigh, N. C.—A short term issue of \$3,850,000 5½ per cent notes has been awarded by the State of North Carolina to a syndicate composed of the First National Bank of New York, Bankers' Company of New York and Salomon Brothers & Hutzler, New York, at par.

\$450,000 Theatre for Tampa

Tampa, Fla.—Plans are being prepared by F. J. Kennard & Co., local architects, for a \$450,000 theater to be erected here by J. Leonard Replogle, Palm Beach, and A. S. Metzner, Tampa.

THREE MIAMI BUILDINGS TO COST \$805,000

Company Announces Plans for Structures to Be Built Soon

Miami, Fla.—A building program to be completed during the summer and involving the erection of three structures on Biscayne boulevard at a cost of \$805,000, has been undertaken by the Biscayne Boulevard Co. A four-story building will be erected at the northwest corner of Biscayne boulevard and Thirteenth street, at a cost of \$600,000, for lease to Sears, Roebuck & Co., Chicago, as a department store. It will be 135 by 175 feet, with a 103-foot tower, according to plans prepared by Nimmons, Carr & Wright, Chicago architects.

A three-story building will be erected at the northwest corner of Biscayne boulevard and Fourteenth terrace, to be leased to the Hirsch-Fauth Furniture Co. Plans by R. L. Weed, architect, and V. E. Virrick, associate architect, both of Miami, call for a structure 75 by 138 feet, so designed that additional units may be added. It will cost about \$125,000. A third building will be erected adjoining the Sears-Roebuck building, at a cost of \$80,000, for lease to other interests.

Two Southern Cities Win in Fire Prevention Contest

The Owensboro, Ky., Chamber of Commerce, and the Albany, Ga., Chamber of Commerce received awards from the National Councillors of the Chamber of Commerce of the United States for their achievements in winning first place among cities of their respective sizes in the 1928 Inter-Chamber Fire Waste Contest. Other winners included the Erie, Pa., Chamber of Commerce and the Lakewood, Ohio, Chamber of Commerce. To the Detroit Board of Commerce was presented the grand award for the best record among all cities in the contest regardless of size.

Fire prevention activity as a means of reducing loss of life and waste in property was undertaken by more than 650 cities entered in the contest.

By winning the award for cities of its class, the Owensboro Chamber repeated its record of 1926. Prominent in the activities of its fire prevention committee was an educational program carried on through the schools and churches, civic clubs and press, to such an extent that the number of fires was materially reduced and the fire loss, 54c per capita, was the lowest in the last 30 years of the city's existence.

This is the fourth time Albany, Ga., has been recognized by an award in the contest. Its fire loss last year was \$4520, or 24c per capita, the lowest in the history of the city.

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Registered U. S. Pat. Office

"The World's Playground" has used Leadite with complete satisfaction for over 20 years

ATLANTIC CITY, New Jersey, is proud of its well-paved streets. In laying new or additional cast iron mains, the engineers always use Leadite. They know from the experience of nearly one-quarter of a century that Leadite joints are absolutely secure and that the occasion will not arise where paved streets have to be dug up to repair the line.

In addition to the mains under the paved streets, Leadite was used for jointing the 24" main that runs under the famous boardwalk.

Specify and use
LEADITE

—it saves **75%**
at least



Laying 24" c. i. water mains, with Leadite Joints, in Atlantic City under paved street.

Other lines run through salt marshes, over bridges and under numerous railroad tracks.

The sizes of these mains run from 4" to 48".

Mr. L. Van Gilder is Engineer and Superintendent of the Atlantic City water department.

Added to the security and permanence of Leadite joints there is a saving of 75%.

For its economy—permanence—security—and the speed with which jointing can be finished—Water Works men specify and use Leadite.

Be sure it is
LEADITE
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*The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.*

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

FINANCIAL NEWS

Bond Issues Proposed

Ala., Birmingham—City Comm., receives bids May 14 for \$260,000, not to exceed 5% bonds; A. J. Hawkins, City Engr.

Ala., Ozark—Funding Floating—City, T. C. Goodwin, Clk., voted \$36,000 6% bonds; plans selling bonds.

Ark., Clarksville—School—City votes May 18 on \$35,000 bonds; A. N. Hannah, Sec., School Board.

Ark., Lonoke—Comms. Lonoke Sewer Dist. No. 1, W. W. McCrary, Chmn., receive bids May 13, at office of Trimble, Trimble & McCrary, Lonoke, for \$55,800 sewer bonds.

Ark., Lonoke—Comms. Lonoke Waterworks Improvement Dist. No. 1, W. W. McCrary, Chmn., receive bids May 13 at office of Trimble & McCrary, Lonoke, for \$68,000 water bonds.

Fla., De Funiak Springs—Hospital, Jail—Walton County Comms., M. T. Fountain, Clk., rejected bids for \$90,000, bonds. 4-25

Fla., DeLand—Road—Volusia County Comms. plan receiving bids for \$36,000 bonds for obtaining right of way for State Road No. 4.

Fla., DeLand—Volusia County, Special Tax School Dist. No. 38, voted \$27,000, 6% bonds; New Smyrna School Dist. voted \$59,000 bonds; Geo. W. Marks, Supt. Bd. of Public Instruction. 4-11

Fla., Fort Lauderdale—Street—City, Alwen Neuhaarth, Clk., receives bids May 28 for \$79,000, 6%, \$1,000 denom. bonds.

Fla., Fort Myers—Lee County Comms., H. M. Stringfellow, Chmn., receive bids June 5 for \$165,000, 6%, \$1,000 denom. Fort Myers-Igna Special Road and Bridge Dist. bonds.

Fla., Lynn Haven—Refunding—City, Julie Bahl, Clk., plans selling \$76,000 bonds.

Fla., Miami Beach—City, C. W. Tomlinson, Clk., votes June 4 on \$300,000 bonds to purchase Flamingo Park. 5-2

Fla., Pensacola—Special Tax School Dist. No. 10, Escambia County, votes May 16 on \$30,000 bonds; William Tyler, Supt. of schools. 4-18

Fla., Titusville—Brevard County Comms., N. T. Froscher, Clk., receive bids May 14 for \$1,250,000, 5, 5½ and 6% county bonds.

Ga., Atlanta—City Council considering \$3,000,000 bond issue; \$1,000,000 Grady Hospital; \$1,000,000, Alabama St. viaduct from Forsyth St. across Spring St. viaduct to Elliott St.; \$500,000, fire headquarters; \$500,000, police station; Howard L. McCutcheon, Councilman.

Ga., Royston—Royston School Dist. votes soon on \$16,000 bonds.

Ga., Waycross—Hospital—Ware County defeated \$250,000 bond issue. 4-4

Ga., Waycross—Floating Indebtedness—City, Walto E. Lee, Clk., defeated \$250,000, 4½%, \$1,000 denom. bond issue. 4-4

Ky., Maysville—Refunding—City Council plans \$60,000 bond issue.

La., Abbeville—Vermilion Parish School Bd., J. H. Williams, Sec., receives bids May 15 for \$75,000 6% indebtedness certificates.

La., Amite—Tangipahoa Parish School Bd., W. J. Dunn, Sec., receives bids May 21 for \$30,000, \$500 denom. not to exceed 6% bonds.

La., Bastrop—School—City votes June 4 on \$250,000 bonds. 5-2

La., Franklinton—Washington Parish, Franklinton School Dist. probably votes May 14 on \$125,000 bonds, D. H. Stringfellow, Supt. Parish School Bd. 3-21

La., Franklinton—Washington Parish School Bd., D. H. Stringfellow, Supt., receives bids May 14 for \$20,000 Enon Dist. School bonds.

La., Natchitoches—Airport—City considering \$35,000 bond election.

La., Ville Platte—Bd. of Comms., Reddell Gravity Drainage Dist. No. 6, Evangeline Parish, J. Cleveland Fruge, Sec., receives bids May 18 for \$15,000 6% \$200 denom. Series "A" bonds.

La., Ville Platte—Bd. of Comms., L'Anse Grise Gravity Drainage Dist. No. 11, Evangeline Parish, J. Cleveland Fruge, Sec., receives bids May 18 for \$9000 6% \$100 denom. Series "A" bonds.

Maryland—State Legislature, during 1929 session, passed bills authorizing 6 state, 23 county, and 25 municipal bond issues: State issues—\$1,500,000, bridge; \$1,500,000, post

roads; \$3,761,000, construction; \$50,000, school construction; \$72,000, road building; \$4,000, 000, roads; County issues—\$475,000, Montgomery County School; \$2,000,000, Baltimore County School; \$106,000, Prince Georges County; \$25,000, Dorchester County school; \$20,000, Queen Annes County school; \$207,000 Prince Georges County school; \$300,000, Worcester County school; \$60,000, Charles County school; \$300,000, Wicomico County school; \$1,000,000, Anne Arundel County school; \$550,000, Prince Georges County road; \$80,000, Howard County school; \$200,000, Carroll County road; \$150,000, Washington County school; \$471,000, Washington County school; \$100,000, Anne Arundel County bridge; \$200,000, Montgomery County roads and underpass; \$697,000, Montgomery County road; \$130,000, Montgomery County courthouse; \$100,000, Kent County road; \$25,000, Montgomery County underpass; \$30,000, Talbot County school; \$900,000, Kent County road; Municipal issues—\$50,000, Pocomoke City water and sewer; \$20,000, Brunswick improvement; \$30,000, Centerville street improvement; \$20,000, Greensboro improvement; \$125,000, Cumberland Marine Hospital; \$10,000, Hampstead road and street; \$25,000, Frederick water and general improvement; \$25,000, Crisfield improvement; \$15,000, Funkstown water; \$85,000, Cumberland sewer; \$80,000, Cumberland incinerator; \$30,000, Salisbury fire equipment; \$25,000, Ocean City water and sewer; \$20,000, Mount Airy water; \$50,000, Smithsburg water; \$50,000, Chestertown improvement; \$13,000, Laurel fire equipment; \$10,000, Laurel street; \$75,000 Cambridge improvement; \$25,000, Chestertown sewer; \$35,000, Aberdeen improvement; \$300,000, Hagerstown sewer; \$50,000, Cumberland fire; \$200,000, Cumberland water.

Md., Chestertown—Road—Kent County votes May 11 on \$900,000 bonds.

Md., Centerville—Street—Town Comms., E. Sterling Price, Clk., receive bids May 28 for \$30,000 5% bonds.

Miss., Greenville—Road—Washington County may vote soon on \$500,000 bonds.

Miss., Greenwood—Leflore County votes May 22 on \$30,000 bonds to improve Kings Daughters Hospital. Lately noted vote May 2. 4-25

Miss., Macon—City voted \$45,000 school bonds; \$10,000 fire equipment bonds. 4-18

Miss., Poplarville—Paving—City, E. H. Hyde, Mayor, voted \$80,000 bonds.

Miss., Summit—City voted \$5,000 bonds for school; defeated \$7,000, for city hall. 4-18

Mo., Campbell—Sec. Bd. of Education, Campbell Consolidated School Dist. plans selling \$45,000 bonds.

Mo., Kirkwood—Kirkwood School Dist. votes May 18 on \$250,000 bonds; F. P. Tillman, Supt. of Public Schools. 5-2

Mo., Moberly—Moberly School Dist. votes May 14 on \$490,000 bonds; B. F. Self, Sec. Bd. of Education.

Mo., St. Joseph—Water—City voted \$30,000 bonds.

Mo., St. Louis—School—City, reported, voted \$400,000 bonds.

N. C., Chapel Hill—Funding, Deficit—I. Lathrop Morehead, Durham, N. C., receives bids June 25, tentative date, for \$15,000, \$500 denom. Chapel Hill Graded School Dist. bonds; bidders to name rate of interest, B. A. Stevens, School Supt. 5-2

N. C., Statesville—City, Bd. of Aldermen, L. N. Miles, Clk. and Treas., receives bids May 23 for \$320,000 bonds; \$205,000, water, sewer, light; \$115,000, street.

Okla., Beaver—Hospital and Equipment—City, town voted \$50,000 bonds.

Okla., Britton—Water—City considering bond issue.

Okla., Hollis—School—City voted \$68,000 bonds.

South Carolina—State Finance Committee, J. H. Scarborough, State Treas., Columbus, plans issuing \$4,000,000, 5% notes.

S. C., Aiken—Highway—Aiken County Comms., O. R. Cofer, Clk., receives bids May 15 for \$50,000, \$1000 denom. bonds.

S. C., Greenville—Greenville School Dist., E. M. Blythe, Chmn., votes May 21 on \$700,000, not to exceed 6% bonds. 3-21

S. C., Laurens—Laurens County Bd. of Suprs., John D. W. Watts, Supr., receives bids May 11 for \$230,000, not to exceed 5½% highway bonds.

S. C., York—Bethel Township Consolidated School Dist., votes soon on \$12,000 bonds.

Tenn., Alton Park, Chattanooga—Legisla-

ture authorized \$95,000 Alton Park School Dist. bond issue.

Tenn., Ashland City—Legislature authorized Cheatham County to issue \$100,000 \$100 denom. not to exceed 5½% outstanding indebtedness bonds.

Tenn., Bristol—Street—City, W. K. Carson, Treas., voted \$20,000 bonds. 4-18

Tenn., Chattanooga—School—City plans voting June 4 on \$670,000 bonds.

Tenn., Nashville—State Funding Bd., Nashville, plans selling \$5,040,000 bonds; \$5,000,000, not to exceed 5% bridge; \$40,000, 6% \$8,000 denom. or multiples, State Vocational School bonds.

Tenn., Tazewell—Courthouse, Jail—Claiborne County Court, J. H. Williams, Chmn., plans \$150,000 not to exceed 5% bond issue.

Tex., Alice—City votes May 27 on \$125,000 bonds; Irma Curtlett, Sec., Bd. of Education.

Tex., Boerne—Boerne Independent School Dist., W. E. Janensch, Sec., voted \$40,000 bonds. 3-28

Tex., Borger—Borger Independent School Dist. voted \$200,000 bonds.

Tex., Edinburg—Hidalgo County Water Control & Improvement Dist. No. 1, D. S. Fraier, Dist. Mgr., will sell at once \$500,000 bonds for concreting canals in system. 4-25

Tex., Fort Worth—Underpass, Overpass, Road—City, O. E. Carr, Mgr., votes soon on \$1,500,000 or \$2,000,000 bonds.

Tex., Gouldbusk—Town plans \$12,000 bond election.

Tex., Groveton—City votes June 4 on \$99,739 bonds; \$62,739, funding; \$23,000, water; \$14,000, street.

Tex., Nacogdoches—Nat Rural Consolidated High School voted \$10,000 bonds; Roy L. Self, Principal.

Tex., Orange—Vidor High School Dist., Orange County, votes May 18 on \$50,000 bonds. 5-2

Tex., Rhame—City voted \$30,000 school bonds.

Tex., St. Paul—St. Paul Independent School Dist. votes soon on \$10,000 bonds.

Tex., San Antonio—Los Angeles Heights Dist., Bexar County, considering \$300,000 bond issue; G. F. Todd, Sec. School Bd.

Tex., Turkey—School—City votes May 14 on \$85,000 bonds.

Tex., White Deer—White Deer Independent School Dist. voted \$35,000 bonds for school at Skellytown, north of White Deer.

Va., Danville—Water—City may sell \$40,000 bonds latter part of May.

Va., Winchester—City, W. T. Barr, Treas., receives bids May 10 for \$349,000, 4½% \$1,000 denom. bonds for sewer, streets, school and refunding.

W. Va., Charleston—Charleston Independent School Dist., votes May 21 on \$750,000 bonds.

W. Va., Harpers Ferry—Harpers Ferry School Dist. plans voting during summer on \$100,000 bonds.

W. Va., Wayne—Road—Wayne County, Ceredo Dist., plans \$400,000 bond election; H. O. Wiles, County Highway Engr.

Bond Issues Sold

Ky., Ashland—Sewer—City, H. L. Carroll, Clk., sold \$200,000 5% bonds to Harris Trust & Savings Bank, Chicago, Ill., \$3186 premium. 3-28

La., Cottonport—Avoyelles Parish School Bd., G. L. Portiere, Pres., Marksville, sold \$60,000 5% Cottonport School Dist. No. 12 bonds to Peoples Savings Bank & Trust Co., Mansura, \$87.50 premium. 4-4

Miss., Byhalia—Road Comms., of Byhalia—Victoria Road Dist., Marshall County, sold \$100,000 highway bonds to I. B. Tigrett & Co., Memphis, Tenn.

Mo., Billings—Water—City, Colmore Gray, Clk., sold \$40,000 5½%, \$1000 denom. bonds to Prescott, Wright Snider & Co., Kansas City, \$1,008.50 per \$1000. 5-2

Mo., Sedalia—Hospital—City, N. L. Nelson, Clk., sold \$100,000, 4½% bonds to Commerce Trust Co., Kansas City, at par.

(Continued on page 112)

BRIXMENT cuts out the need of lime

WHEN the contractor uses lime in the mix he does so to get a smooth-working, economical mortar. These advantages are not obtained, however, without certain inevitable disadvantages. Efflorescence, fading of mortar colors and water absorption are often due to the lime in the mix.

When BRIXMENT is used for mortar, however, plasticity and economy are secured *without lime in the mix*. One part BRIXMENT, three parts sand make a strong mortar which is easy to spread and which sticks to the brick when the bricklayer throws up a head-joint. This plasticity, together with the low cost of BRIXMENT itself, results in real economy.

BRIXMENT requires no soaking or slaking. It is easy to mix in any quantity desired by hand or machine. One material only is handled on the job. Louisville Cement Company, Incorporated, Louisville, Kentucky.

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BRIXMENT *for Mortar and Stucco*

One bag of BRIXMENT to a three-cubic-foot wheel-barrow of sand makes a three-to-one mix without the need of measuring.



FINANCIAL NEWS

(Continued from page 110)

Mo., St. Joseph—School Dist. of St. Joseph, A. L. Loving, Sec. and Bus. Mgr., sold \$250,000 4%, \$1000 denom. bonds at \$240.490, to Harris Trust & Savings Co., Chicago, Ill., Commerce Trust Co., Kansas City, and Empire Trust Co., St. Joseph. 4-25

N. C., Asheville—Road, Bridge, Courthouse, Jail—Morris Mather & Co., Chicago, Ill., offering \$218,000 5% Buncombe County bonds, recently sold.

N. C., Cherryville — Refunding — Town Commrs., T. J. Mosteller, Clk., sold \$22,000, 5% bonds to Magnus & Co., Cincinnati, Ohio, at premium. 4-25

N. C., Dobson — Funding — Surry County Commrs., T. M. Marsh, Register of Deeds, sold \$50,000 5½% bonds to Braun, Bosworth & Co., Toledo, Ohio, \$100 premium. 4-11

N. C., Greensboro—Guilford County Commrs., R. H. Wharton, Clk., sold \$605,000, 4¾% bonds to National City Co., New York, at 100.2299: \$525,000, road and bridge, \$30,000, county jail; \$50,000, county home. 4-25

N. C., Rutherfordton—Road, Bridge—Rutherford County sold \$40,000 5¼% bonds to Detroit Trust Co., Detroit, Mich., \$1846 premium; \$103,000 5¾% refunding bonds to Stranahan, Harris & Oatis, Inc., Toledo, O., \$1700 premium.

N. C., Tarboro—Edgecombe County Commrs., M. L. Laughlin, County Auditor, sold \$60,000 5% \$1000 denom. school bonds to Wells-Dickey Co., Minneapolis, Minn., and Wachovia Bank & Trust Co., Winston-Salem, at \$60.245 and accrued interest. 4-18

N. C., Winston-Salem—School—City sold \$1,800,000 4¾% bonds at 101.81 to syndicate composed of Stone & Webster & Blodgett, Inc., New York City, Guardian Detroit Co., Inc., Detroit, Mich., Federal Commerce Trust Co., St. Louis, Mo., and W. F. Shafner & Co., Winston-Salem.

Okla., Marietta—School—Love County sold \$12,000 Consolidated School Dist. No. 2 bonds to American-First Trust Co., Oklahoma City.

S. C., Clover—York County Bd. of Trustees, School Dist. No. 57, L. L. Hardin, Chmn., York, sold \$50,000 5¼% and 6% coupon bonds to Stranahan, Harris & Oatis, Inc., Toledo, Ohio, \$4780. 4-11

S. C., Greenville—Greenville County, Bd. of Education, Robert L. Meares, Jr., Supt., sold \$7,200 Welcome School Dist. Bonds to J. F. McAllister & Co., Greenville, \$325 premium. 5-2

Tenn., Athens—School—McMinn County Court sold \$125,000 5% bonds to Caldwell & Co., Nashville, \$1263. 4-11

Tenn., Dyersburg—Road—Dyer County Pike Comm., L. L. Pace, County Clk., sold \$1,000,000 5%, \$1000 denom. bonds to I. B. Tigrett & Co., Memphis, at par, accrued interest and \$7500 premium. 4-18

Tex., Austin—City, Adam R. Johnson, Mgr., sold \$1,000,000 4¾% bonds at 101.41 to Ames, Emerich & Co., Inc., Chicago, Ill., \$525,000, street; \$250,000, sanitary sewer; \$200,000, parks and playgrounds; \$25,000, fire stations. 4-18

Tex., Corpus Christi—State Bd. of Education, Austin, purchased \$100,000 of \$500,000 issue of Corpus Christi Independent School Dist. bonds at par and accrued interest.

Tex., Milford—Sewer—City sold \$28,000 6% bonds to Well, Roth & Irving Co., Cincinnati, Ohio, at par. 4-25

Tex., Waco—McClellan County will purchase \$75,000 road bonds with money from road dist. sinking fund interest. Lately noted rejected bids for \$1,160,000 bonds. 5-2

Building and Loan Associations

Md., Baltimore—Maryland Commonwealth Building & Loan Assn., Inc., 2224 N. Charles St., capital \$5,000,000, chartered; George W. Abell.

New Financial Corporations

Fla., Stuart—Stuart Central Farmers' Bank opens about May 10; Kennon H. Turner, Pres.

Fla., Wauchula — Wauchula State Bank opened; W. F. Hutchinson, Pres.

La., Houma—Bank of Terrebonne & Trust Co., capital \$75,000, chartered; Henry M. Bourg, Pres.; name changed from Bank of Terrebonne & Savings Bank.

La., Monroe—Morris Plan Co., of Monroe,

Inc., capital \$20,000, chartered; Gilbert J. Fortier, Pres., 456 Audubon Blvd.

Md., Baltimore—American Finance & Mortgage Co., Inc., Equitable Bldg., capital \$200,000, chartered; Franz J. Weisblatt.

Mo., North Kansas City, Kansas City—Great Western Finance & Credit Corp., capital \$75,000, chartered; E. C. Mueller, 2012 Gentry St.

N. C., Mount Holly—Bank of Mount Holly, authorized capital \$100,000, chartered; W. H. Wood, 710 Queens Rd., Myer Park, Charlotte.

N. C., Mount Holly—C. E. Hutchinson applied for charter for new bank

Okla., Buffalo — Buffalo National Bank, capital \$25,000, chartered; E. E. Thomas, Rosston, Okla., correspondent.

Tenn., Houston—Carter Investment Co., Union National Bank Bldg., capital \$1,000,000, incorporated; E. L. Crain, Pres.; W. T. Carter, Jr., Chmn., Bd. of Directors, formed by merger of Carter Investment Co., W. T. Carter, Jr., Pres., and Houston Investment Co., E. L. Crain, Pres.

State Bank & Trust Co., W. S. Wood, Pres., Quarrier St., plans merging with Charleston National Bank, Isaac Loewenstein, Pres., both Charleston, W. Va., about May 10.

Industrial Loan Co. of Monroe, Inc., purchased Monroe Investment Loan Co., Inc., both Monroe, La.; additional directors: C. E. McKenzie, Judson W. Smith, P. M. Atkins.

American National Bank, M. W. Turner, Pres., and Colonial National Bank, E. W. Tinsley, Pres., both Roanoke, Va., plan merging as Colonial-American National Bank of Roanoke at Jefferson St. and Campbell Ave.; capital \$1,000,000; R. H. Angell, Chmn. of Bd.; E. W. Tinsley, Pres.; M. W. Turner, V.P. and Chmn. of Executive Committee.

Wilmington Branch of Morris Plan Bank, Wilmington, N. C., organized with F. M. Ross, Pres., at Front and Market St.; will open May 15.

Citizens & Southern National Bank, Mills B. Lane, Chmn. of Board, with offices at Savannah, Atlanta, Macon, Augusta, Athens and Valdosta, Ga., plans increasing capital, \$4,000,000 to \$5,000,000, effective July 1.

National Bank of Commerce, J. H. McBirney, Pres., Tulsa, Okla., authorized increasing capital \$200,000 to \$500,000.

City National Bank, W. R. King, Pres., Guaranty State Bank, George D. Campbell, Pres., and Central Bank & Trust Co., all San Antonio, Tex., merged as City Central Bank & Trust Co., with \$1,300,000 capital.

Arthur L. Perry, Pres., Florida National Bank, Jacksonville, Fla., advises action taken by Directors of Florida National Bank and Barnett National Bank toward consolidation has been rescinded, owing to inability to secure satisfactory State legislation. 4-25

Security National Bank, Bruce Mitchell, Pres., purchased First National Bank, W. A. Caldwell, Pres., both Jackson, Tenn.

Subsidiary of Bankers Mortgage Investment Co. of Birmingham has been organized in Alston Bldg., Tuscaloosa, Ala., capital \$255,000; J. Hudson Barker, Pres.

Book Review

Executives' Business Law, by Harry A. Toulmin, Jr. New York: D. Van Nostrand Co., Inc. Cloth. Pp. 786. \$6, net.

First citing the fact that "partnership between law and business is becoming more intricate and complicated each day," Mr. Toulmin asks what a busy man can do with the thousands of new laws and modifications of old laws, in the form of 25,000 new statutes each year, particularly as the busy man cannot have his lawyer at his side at all times. He presents his answer in this book, arranged according to the functions of business and the problems of business, as a practical solution for the legal phases of business problems. In this fashion, he first takes up the principles of the law, discussing the background, the

United States system, constitutional law, the machinery of the law and business problems and the law. Under the general subject of law of business organizations, he treats of partnerships, fictitious firm names, corporations, promotion of corporations, corporation stock and dividends and, of particular interest in these days, consolidations and reorganizations. Other chapters come under this general head, also. The law of property rights is interpreted in relation to sales, title to goods sold, chattel mortgages, bulk sales, uniform sales, performance of sales contracts and remedies, mechanics and municipal liens, and so on. Included in discussion of the law of business relations are various factors in connection with contracts and in connection with agencies; relations between employer and employee, principal and surety, insurance in various phases. Nearly a score of chapters are needed in the section treating of the law of financial problems, and other sections discuss the law of public relations, the law of business crimes and personal responsibility. Adequate discussion of any one of the individual topics is a task in itself; treatment of them all appears to the layman a heroic undertaking. Mr. Toulmin seems to have done a big job well.

Explosives for Farming.

The explosives department of the du Pont Company, Wilmington, Del., has established an agricultural extension section to give thorough study to problems connected with the use of explosives in agricultural work and to aid farmers and others in the economical use of these products. The new section is formed because of the increasing use of explosives on the farm. The Department of Agriculture during the past few years has distributed to farmers about 67,000,000 pounds of pyrotol, a war surplus explosive, which was used agriculturally in addition to the dynamite supplied by industrial concerns, but the supply of pyrotol is said to be exhausted.

Bahnson Office Change.

The Bahnson Company, manufacturers of humidifiers, has moved its main office to the 16th floor of the new Reynolds building recently completed at Winston-Salem, N. C.

New Issue

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A complete list of Banks, Bankers, Savings Banks, Principal Loan, Investment, Safe Deposit and Trust Companies in the United States and Canada, with names of Officers, Capital, Surplus, Undivided Profits, Loans, Deposits, Principal Correspondents, Attorney List, Banking Laws and other general Banking Information.

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**CAPITAL,
SURPLUS
and
UNDIVIDED
PROFITS
over
\$19,000,000**

STATEMENT

At the Close of Business on March 22, 1929

ASSETS

Cash on hand, in Federal Reserve Bank, and due from Banks and Bankers	\$ 13,231,879.38
Exchanges for Clearing House, and other Cash Items	43,531,285.59
United States Bonds and Certificates	7,309,026.48
Short Term Securities	3,086,519.28
Other Bonds and Stocks	12,424,612.08
Real Estate Mortgages	3,139,571.02
Demand Loans on Collateral	22,344,336.10
Time Loans on Collateral	9,934,442.42
Bills Receivable	22,837,461.34
Accrued Interest, etc.	602,938.91
Customers' Liability, Account of Acceptances	7,891,827.71
Banking Houses	8,101,547.29
Overdrafts	842.27
	\$154,436,289.87

LIABILITIES

Capital	\$ 6,000,000.00
Surplus and Undivided Profits	13,539,084.43
Dividend Payable April 1, 1929	270,000.00
Deposits	121,575,979.04
Annuity Fund	881,605.61
Interest due Depositors, Taxes, etc.	963,433.55
Acceptances	9,083,129.43
Acceptances and Foreign Bills sold with our endorsement	2,123,057.81
	\$154,436,289.87



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Baltimore, Md.

\$1,250,000 Addition to Chlorine Plant

Work Begins on Extensive Improvements to
Industrial Enterprise at South Charleston, W. Va.

A large corps of workmen is engaged by the H. K. Ferguson Co., Cleveland, Ohio, in clearing the site for an addition to the plant at South Charleston, W. Va., of the Westvaco Chlorine Products Corp., New York. General contract for the design and construction of the addition was awarded several weeks ago to the Ferguson organization and excavating is now going on around the foundations of the old Banner window glass factory preparatory to tearing it down to make space for the new plant, which is reported to involve an expenditure of \$1,250,000. Carpenters are building forms for a large retaining wall at the west end of the site and engineers are conducting soil bearing tests.

Equipment for the plant is now being purchased by the Ferguson company. Orders already have been placed with the Babcock & Wilcox Co., New York, for two 1325-horsepower Stirling boilers; with the American Engineering Co., Philadelphia, Pa., for a Taylor under-feed stoker; Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa., for a 7500-kilowatt turbine; Allis-Chalmers Manufacturing Co., Milwaukee, Wis., for 3250-kilowatt rotary converters, and with the General Electric Co., Schenectady, N. Y., for switchboard equipment. Plans for the installation of equipment are being prepared at the site by a force of twelve Ferguson engineers.

Plans for \$22,500,000 Electrification Program of Pennsylvania Railroad in Baltimore Advanced

The Pennsylvania Railroad has agreed to electrify its lines through Baltimore by using underground conduits instead of overhead transmission lines, the agreement having been reached at a conference of officials of the railroad, the Board of Estimates and the Mayor's advisory commission which had recom-

mended the disapproval of city ordinances authorizing the construction of the railroad project unless underground electrification were agreed to. Electrification of the lines in Baltimore is a phase of a proposed Pennsylvania Railroad tunnel and terminal project estimated to cost \$22,500,000, and with an agreement reached for installing the electric lines in conduits, it is expected that necessary ordinances calling for the completion of the project in four years will soon be enacted.

A public hearing will be held by the

Board of Estimates and City Council sitting as a committee of the whole, at which amended ordinances providing for underground electrification will be considered and other phases of the project discussed. E. B. Temple, Philadelphia, chief engineer of the Eastern territory of the railroad, is urging action on the ordinances, it is said, in order to permit the beginning of construction as soon as possible.


CONTRACT FOR \$35,000,000 GAS LINE

Project to Involve 1400 Miles of Pipe

Birmingham, Ala.—A contract has been awarded by the Southern Natural Gas Corp., of this city, to Ford, Bacon & Davis, Inc., New York, for the construction of a natural gas pipe line from the Monroe and Richland gas fields of Louisiana through Birmingham to Atlanta. About 1400 miles of pipe will be laid. G. L. Ohrstrom & Co., Inc., are reported to finance the enterprise, which is expected to be in operation by December 1. It is estimated to cost \$35,000,000.


\$500,000 Hotel Addition at Waco

Waco, Tex.—A 12 or 15-story addition to the Hotel Raleigh here, to contain 250 rooms, has been announced by J. M. Nix & Son, San Antonio, operators. The addition will be erected on a site 60 by 105 feet. The first floor will be used for automobile storage for guests.



PROPOSALS

BOND ISSUES
BUILDINGS
PAVING
GOOD ROADS



Bids close May 13, 1929.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., April 29, 1929.—SEALED BIDS will be opened in this office at 3 P. M. May 13, 1929, for alterations in room No. 130 at the U. S. Custom House, Baltimore, Md. Drawings and specifications may be obtained from the custodian at the building or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close June 4, 1929.

U. S. DEPARTMENT OF AGRICULTURE, Washington, D. C. Sealed proposals will be received until 10 o'clock A. M. Tuesday, June 4, 1929, and then publicly opened, for the construction and erection of a structural steel swing bridge, with timber deck (bridge including trestle approaches approximately 210 feet long) over the Bayou Teche at the Iberia Livestock Experiment Station of the United States Department of Agriculture, located between Jeanerette and New Iberia, Louisiana. Upon application, accompanied by deposit of \$10.00 to insure their return, plans and specifications may be had from the U. S. Bureau of Public Roads, Montgomery, Alabama, or W. R. Dodson, Superintendent, Iberia Livestock Experiment Station, Jeanerette, Louisiana.

GENERAL INFORMATION

About Proposal Advertising
in Manufacturers Record

PUBLICATION DAY: Thursday.

FORMS CLOSE: 10 A. M. Tuesday.

When too late to send copy by regular mail to reach us by 10 A. M. Tuesday, forward by night letter or air mail when possible.

THE DAILY BULLETIN OF THE
MANUFACTURERS RECORD:

Published every business day gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened or when daily insertions are necessary to meet legal requirements.

The rate is the same for both publications—35 cents a line each insertion.

Bids close May 16, 1929.

U. S. Engineer Office, 300 Custom House, Baltimore, Md. Sealed proposals will be received here until 2 P. M., May 16, 1929, and then opened for dredging approximately 625,000 cubic yards of shoaling from the Brewerton-Cutoff angle of Channel leading to Baltimore, Md.

Bids close May 22, 1929.

U. S. Engineer Office, Mobile, Ala.—Sealed bids, in duplicate, will be received until 11 A. M. May 22, 1929, and then publicly opened, for furnishing all labor and materials and performing all work of dredging approximately 7,000,000 cubic yards of material in Mobile River and Bay Channels. Further information on application.

Bids close May 31, 1929.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., April 29, 1929.—SEALED BIDS will be opened in this office at 3 P. M. May 31, 1929, for constructing a new money order division and new wire partition, etc., in the U. S. Postoffice, Fayetteville, N. C. Drawings and specifications may be obtained from the custodian of the building or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close June 18, 1929.

DEPARTMENT OF THE INTERIOR, Washington, May 7, 1929. Sealed proposals (in triplicate) will be received at the Department of Interior until 2 o'clock P. M. TUESDAY, JUNE 18, 1929, for furnishing all materials and labor for constructing at Saint Elizabeth's Hospital, Washington, D. C., one Medical and Surgical building, with connecting corridors, including roads, walks and drainage; also for moving the present one-story Contagious building to new site, the same to be performed in accordance with drawings and specifications. This work will include excavating, reinforced concrete construction, hollow tile, brick work, cut stone work, cast stone, marble work, floor and wall tile, terrazzo floors, linoleum floors, iron work, steel sash, steel stairs, tile, metal and built-up roofing, roof ventilators, metal lathing, plastering, carpentry, metal weather strips, insect screens, painting, glazing, hardware, plumbing, heating, electrical work, electric elevator, and outside sewer, water, steam and electric distribution system. Separate bids will be received for electric elevators, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and in making awards the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude to be carefully considered. Drawings and specifications may be obtained upon application to the Construction Division, U. S. Veterans' Bureau, Room 764 Arlington Building, Washington, D. C. A certified check for \$75, payable to the Treasurer of the United States, will be required as a guaranty of the safe return of the plans loaned. The right is reserved to reject any or all bids, waive technical defects, accept one part and reject the other as the interests of the Government may require. Proposals must be securely enveloped, marked "Proposal for construction and completion of Medical and Surgical building, Saint Elizabeth's Hospital," and be addressed to the Secretary of the Interior, Washington, D. C. JOS. M. DIXON, First Assistant Secretary.

Bids close June 7, 1929.

SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received by the U. S. Veterans' Bureau, Room 764 Arlington Building, Washington D. C., until 11 A. M. June 7, 1929, and then publicly opened, for furnishing all labor and materials and performing all work required for U. S. VETERANS' HOSPITAL, SOMERSET HILLS, NEW JERSEY, for Construction of Buildings and Utilities, including roads, walks and drainage. This work will include excavating, reinforced concrete construction, hollow tile, brick work, cast stone, limestone, architectural terra cotta, marble work, floor and wall tile, rubber tile and linoleum floors, iron work, flag pole, steel sash, steel stairs, with slate treads; slate, metal and built-up roofing, roof ventilators, skylights, metal lathing, plastering, carpentry, platform scales, dumb waiter, insect screens, window shades, metal weather strips, painting, glazing, hardware, plumbing, boiler plant, radial brick chimney, heating, electrical work, electric elevators, refrigerating and ice making plant, concrete water tank, and outside sewer, water, steam and electric distribution system. SEPARATE BIDS will be received for General Construction, Plumbing, Heating, Electrical Work, Electric Elevators, Refrigerating and Ice Making Plant, Concrete Water Tank and Radial Brick Chimney, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and in making awards the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 764 Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$100.00, payable to the TREASURER OF THE UNITED STATES, is required as security for safe return of the drawings and specifications within ten days after date of opening bids. FRANK T. HINES, Director. April 30, 1929.

Bids close June 6, 1929.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C. May 6, 1929.—SEALED BIDS will be opened in this office at 3 P. M. June 6, 1929, for mailing platform, elevator hoistway, etc. (except elevator) for the U. S. Postoffice, El Paso, Tex. Drawings and specifications may be obtained from the custodian of the building or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close May 17, 1929.

\$115,000 Gold Bonds

Tarboro, N. C.

Sealed proposals, addressed to the undersigned, will be received until 2 o'clock P. M. on the 17th day of May, 1929, by the Board of Commissioners of the Town of Tarboro for \$115,000 electric light bonds, \$4000 thereof maturing annually from April 1st, 1930, up to and inclusive of April 1st, 1954, and \$3000 thereof maturing annually on April 1st, 1955, up to and inclusive of April 1st, 1959, all inclusive, and without option of prior payment, at which time, or immediately thereafter, the said bonds will be sold at the Town Hall.

All bonds dated April 1st, 1929; denomination \$1000; principal and semi-annual interest (F. & A.) payable in New York in gold; coupon bonds with privilege of registration as to principal owner, general obligations; unlimited taxes; bidder will name rate of interest not exceeding six per cent.

The bonds are to be published under the supervision of the United States Mortgage and Trust Company of New York City, which will certify as to the genuineness of the signature of the official signing same and the seal impressed thereon. The approved opinions of Messrs. Caldwell and Raymond, New York City, will be furnished and purchased; delivery on or about May 25th, 1929, in New York City, or at such place as purchaser may elect.

All bids must be on forms to be furnished by the undersigned or said Trust Company; enclosed in a sealed envelope marked "Proposal for Bids," and must be accompanied by certified check (or cash), payable to the order of the Treasurer of the Town of Tarboro, upon an incorporated bank or trust company for \$2300, to secure the Town against any loss resulting from the failure of the bidder to comply with the terms of his bid. No bid of less than par and accrued interest will be received.

The right to reject all bids is reserved.

J. H. JACOBS, Clerk.

Bids close May 14, 1929.

Steel Bridge

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building a bridge as follows:

Anne Arundel County, Cont. AA-56—Triple-span steel girder bridge on concrete piers and abutments, total length 66 ft. 0 in. between backwalls, under the tracks of the W. B. & A. Elec. R. R. on the road from Glen Burnie to Dorsey near Glen Burnie will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 14th day of May, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 1st day of May, 1929.

G. CLINTON UHL, Chairman.
L. H. STEUART, Secretary.

Bids close June 7, 1929.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., May 3, 1929.—SEALED BIDS will be opened in this office at 3 P. M. June 7, 1929, for construction of a three-story and basement stone faced U. S. Postoffice and Courthouse of approximately 24,500 square feet ground area at Asheville, N. C. Drawings and specifications, not exceeding six sets, may be obtained at this office, in the discretion of the Supervising Architect, by any satisfactory general contractor, and provided a deposit is made of \$50 for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

Bids close May 31, 1929.

State Highway Construction

Nashville, Tenn.

Sealed bids will be received by the State of Tennessee, Department of Highways and Public Works, at their offices in the Memorial Building, Nashville, at 10 A. M. Friday, May 31, 1929, and opened publicly at that hour, for the construction of the following projects:

PROJECT NO. 88-C, HAMILTON COUNTY: The widening of a concrete overhead over Signal Mountain Railway and the widening of a bridge over Silver Creek on State Highway No. 29, between Stringers Ridge Tunnel and Valdeau.

PROJECT NO. 186 and PROJECT NO. 314, WAYNE COUNTY: The construction of a pavement on 14.420 miles of State Highway No. 15, between Waynesboro and the Hardin County line. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 191, SCOTT COUNTY: The construction of a pavement on 15.050 miles of State Highway No. 29, between Helenwood and the Kentucky State line. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 220-B, DICKSON COUNTY: Grading and drainage of 8.440 miles of State Highway No. 1, between the Humphreys County line and Dickson. Bids for two bridges over twenty-foot span will be included with the roadway contract.

PROJECT NO. 347-B, LAUDERDALE COUNTY: The construction of a pavement on 5.120 miles of State Highway No. 19, between Ripley and the Haywood County line. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 223-B, CHESTER COUNTY: The construction of a pavement on 5.260 miles of State Highway No. 5, between Henderson and the McNairy County line. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 353-E, HAMILTON COUNTY: The construction of two concrete bridges on State Highway No. 29, between Soddy and Sale Creek.

PROJECT NO. 388-B, WILLIAMSON COUNTY: The construction of a pavement on 10.777 miles of State Highway No. 6, between the Maury County line and Franklin. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 508-C, HICKMAN COUNTY: The grading and drainage of 7.340 miles of State Highway No. 100, between a point near Centerville and Project No. 508-A.

PROJECT NO. 508-F, DAVIDSON COUNTY: Grading and drainage of 5,000 miles of State Highway No. 100, between the Williamson County line and Pasque.

PROJECT NO. 520-D, CARTER COUNTY: The construction of three concrete bridges and approaches thereto on State Highway No. 67 at Fish Springs.

Bidder's bond on the form furnished with the proposal from a surety acceptable to this Department, or certified check, made payable to this Department, in the amount of not less than five per cent (5%) of the total bid, must accompany the bid as evidence of good faith and as guarantee that, if awarded the contract, the bidder will execute and give bond as required.

Plans are furnished at cost, with no refund. Standard Specifications are furnished at a charge of \$1.00, with no refund. Proposals are furnished free of charge.

The right to reject any or all bids is reserved.

R. H. BAKER,
Commissioner.